

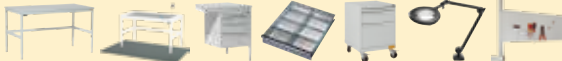
35 Years



Wolfgang Warmbier®



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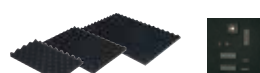
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We believe that all the information in this catalogue, including technical data, weights and sizes to be reliable. However, we make no warranties expressed or implied and assume no liability regarding any use of this information. All the products listed in this catalogue are subject to our general conditions of sales, supply and payment terms.



Information
video

Company Wolfgang Warmbier is located in the south of Germany near the Swiss border. The privately owned company has been producing and distributing ESD control products on its 23.000 sqm facility since 1982.

An annex to the existing building, built between May 2012 and August 2013, created additional 4700 square meters of office and warehouse space. The storage capacity currently amounts to over 6500 pallet spaces. Furthermore, the new building includes a new ESD laboratory with a walk-in climatic chamber and a training center for 50 people.

Besides production and distribution, our activities include EPA consulting and planning, ESD training and workshops, ESD audits, and material analyses according to the current ESD standards.

Warmbier also specializes in tailoring products to meet the customers ever growing demands for non standard products. Over the last few years we invested in new machinery to optimize and expand production. As well as packaging we also cut table and floor mats to order.



QR-CODES IN THE CATALOGUE

QR-Codes have been used to point out several products. To read the codes, you need a QR-Code scanner on your smart-phone or tablet.

Scan the QR-Codes in the catalogue and you will get a direct link to the video or detailed product informations.



Website

Recommended international standards:

IEC 61340-5-1

Electrostatics – Part 5-1: Protection of electronic devices from electrostatic phenomena
– General requirements –

IEC/TR 61340-5-2

Electrostatics – Part 5-2:
Protection of electronic devices from electrostatic phenomena
– User guide –

IEC 61340-5-3

Electrostatics – Part 5-3
Protection of electronic devices from electrostatic phenomena –
Properties and requirements classification for packaging intended for
discharge electrostatic sensitive devices



Further informations
about standards



symbols used throughout this catalogue to define products in compliance with
IEC 61340-5-1 / IEC 61340-5-3.

All PERMASTAT® products are intended only for ESD protection in industrial electronic production.

For the latest information about all ESD standards see www.warmbier.com/esd-standards

QUALITY CONTROL SYSTEM



Since 1998 the company Wolfgang Warmbier maintains a Quality Control System certified by the DQS GmbH.

Scope:
Consulting, manufacturing and supply
of static control material and systems,
calibration of ESD test instruments.



Download certificates





ESD protected area (sample configuration)

- ① Marking of an Electrostatic Protected Area (EPA)
- ② Personnel Grounding Tester for testing „wrist strap grounding system“ and “Person footwear system”
- ③ Conductive or dissipative flooring system for personnel grounding over “Person footwear system”, grounding of ESD chairs, ESD transport carts etc.
- ④ ESD shoes, heel grounder or toe grounder for „Personnel Grounding“
- ⑤ Wrist strap system for grounding of personnel in seating position
- ⑥ ESD garments are shielding the electrostatic fields of the normal clothing
- ⑦ ESD chairs minimize the chargeability of personnel when getting up and additionally ground a person when sitting down
- ⑧ ESD Workstation with dissipative bench top and dissipative shelves
- ⑨ Galvanized steel shelving system will secure, when grounded properly, the dissipation of charges from conductive or dissipative transport systems and packaging
- ⑩ Utility Cart with 4 conductive castors
- ⑪ ESD packaging (conductive, dissipative and/or ESD shielding) is needed for a proper transport of electronic components and boards within and outside an EPA.
- ⑫ Storage racks are used to store ESDS (Electrostatic Sensitive Devices)
- ⑬ Ionisers can neutralise electrostatic charges on process relevant isolators
- ⑭ ESD safe office equipment like ring binders and lighting magnifiers prevent the danger of electrostatic fields at workstations
- ⑮ Test and measurement equipment is used for verification of all the different ESD items within an EPA



Training Center

We offer ESD training on-site and also at our own Warmbier Training Center.

See dates and registration form on our website:
www.warmbier.com



ESD training dates



Showroom

CUSTOMER SERVICES

- Consulting, planning of ESD protected areas
- Material evaluation
- Analyses of material according to ESD standards
- Measurements in EPA's and Production
- ESD Audits
- Test reports and surveys
- ESD training
- ESD workshops



Laboratory

ESD test instruments are calibrated in our own calibration laboratory following the guidelines of the DIN EN ISO/IEC 17025 standard.

Please use the following part numbers for ordering instrument's calibration:



All Calibrations
incl. Certificate DE/EN



Part Nr.	Calibration for
① 7100.3000.KA	Metriso® 3000
② 7100.EFM51.KA	EFM®51
③ 7100.EFM51.WT.KA	EFM®51 Walking Test Kit
④ 7100.SRM110.KA	SRM®110
⑤ 7100.3000.TF.KA	Temp./humidity sensor for Metriso®3000
⑥ 7100.B530.KA	Metriso® B530

Part Nr.	Calibration for
⑦ 7100.TF530.KA	Thermo-Hygrometer TF-530
⑧ 7110.B530.SET.KA	Audit Kit (Set with Metriso® B530)
⑨ 7110.600.SET.KA	Audit Kit (Set with Metriso®3000)
⑩ 7100.PGT120.KA	PGT®120 / PGT®120.COM
⑪ 7220.880.KA	Concentric Ring probe Model 880
⑫ 7220.844.KA	Mini Probe

REGISTERED PRODUCTS / PATENTS

The following products are registered brand names of Company Wolfgang Warmbier.

Product	Registration Nr.
PERMASTAT®	2049927
IDP-STAT®	30640233.5
HIGHSHIELD®	302009070641
CARBOSTAT®	302008054765
SAFESHIELD®	302009008313

Product	Registration Nr.
PGT®	302008054766
SRM®	302008054764
EFM®	302008054734
ECOSTAT®	302008054733

Product	Patent-Nr.
SAFESHIELD®	42 06 727



All Calibrations
incl. Certificate DE/EN



13



14



15



16



17



18



19



20



21



22



23



25



24



Part Nr.	Calibration for
13 7220.844.C.KA	Calibration Unit for Two-Point-Probe
14 7100.WT5000.KA	WT5000
15 7100.PGT120.CU.KA	Calibration Unit PGT®120
16 7100.181.C.KA	Calibration Unit Safety Pips
17 7100.CPM74.KA	CPM 74
18 7100.SRM200.KA	SRM®200
19 7100.181.KA	Safety Pips / Safety Pips K

Part Nr.	Calibration for
20 7100.ESVM1000.KA	ESVM 1000
21 7100.ESVM2000.KA	ESVM 2000
22 7100.ESVM821HH.KA	ESVM 821HH
23 7220.890.WE.KA	Two-sided Probe 890
24 7220.830.SET.KA	Press Down Probe Model 830
25 7100.VB.KA	Veribox



calibration laboratory





Conductive and static dissipative floors are the most basic and the most important elements in the building of a functional EPA (ESD Protected Area)

We offer you:

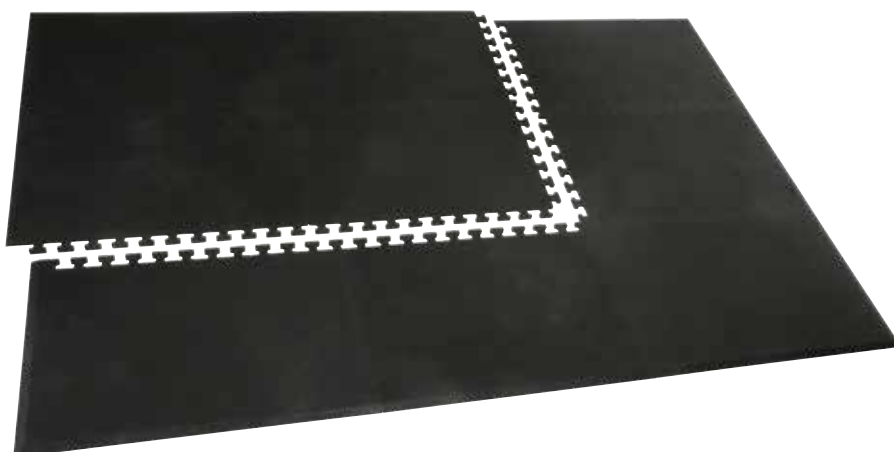
- Competence and Know-how
- Custom adapted solutions
- Design and material according to customer's request
- Conductive and static dissipative material
- Test reports according to current standards

PRODUCTS:

- RUBBER FLOORING
- PVC FLOORING
- CARPET FLOORING
- FLOOR COATING
- ANTI-FATIGUE MATS

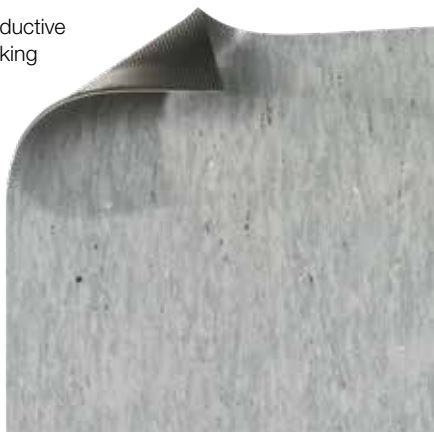


Anti-fatigue mats with optional yellow bevelled edges or with interlocking system



ESD Floor Cleaner
see page 184

conductive
backing



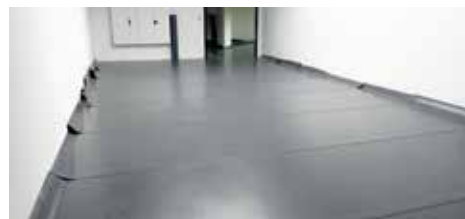
1308.47002



1308.47055



1308.47001



Installation in
double-cut
technique



High performance PVC flooring material on rolls, specially designed for the electronic industry. The electrical properties are unaffected by the type of glue used. For light industrial applications, a „quick-lift“ adhesive tape may be used.

Refer to our data sheet for more information.

- Two layer PVC flooring
- Electrostatic dissipative flooring
- Insulation resistance for personnel safety acc. to DIN VDE 0100-410
- Matt, silky surface
- Easy maintenance
- Thickness 2 mm
- High abrasion resistance
- Conductive backing
- **Better adhesion due to non conductive glue**
- **Suitable for forklift traffic when installed accordingly**
- Available on rolls

Other colours on request!



Instructions for use

IEC
EN

Part Nr.	Standard Sizes	Colour
1308.47002	1,5 m x 16 - 25 m	Grey
1308.47001	1,5 m x 16 - 25 m	Light grey
1308.47055	1,5 m x 16 - 25 m	Blue



ACCESSORIES



Adhesive see page 15

Quick-Lift adhesive
tape see page 15

WELDING ROD

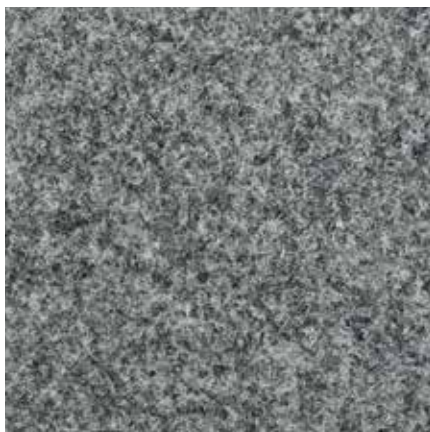
NEW



Part Nr.	Size	Colour
1300.1179.232	4 mm x 120 m / Roll	RAL 7040
1300.1179.230	4 mm x 120 m / Roll	RAL 7035



ECOSTAT®-DF CENTRA-NV



1806.HG



1806.RB



1806.AZ

Hard-wearing Polyamide flooring material on rolls, specially designed for the electronic industry.

Constant electrostatic dissipative properties, using a special conductive glue, Thomsit T412 and a conductive finish, Thomsit R762.

- Electrostatic dissipative Polyamide flooring
- Easy maintenance
- 100 % Polyamide with conductive fiber
- High abrasion resistance
- Available on rolls

Other colours on request!



Instructions for use

IEC
EN

Part Nr.	Sizes	Colour
1806.HG	2,0 m x 25 - 35 m	Light grey
1806.RB	2,0 m x 25 - 35 m	Royal blue
1806.AZ	2,0 m x 25 - 35 m	Anthracite

CONDUCTIVE FINISH AND ADHESIVE FOR CENTRA NV



Conductive glue
For Ecostat®-DF CENTRA-NV Polyamide

Consumption: app. 450 g/m²



Conductive finish
Alternative to copper band

Consumption: app. 150 g/m²

Part Nr.	Pail
1280.T412	14 kg

Part Nr.	Pail
1280.R762	10 kg



Instructions for use



conductive
backing



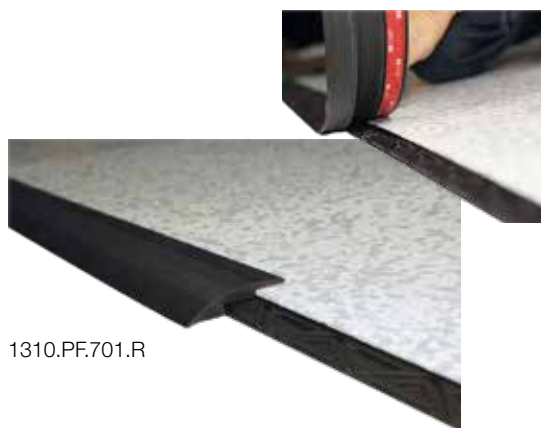
Tip: Laying with soft-head hammer



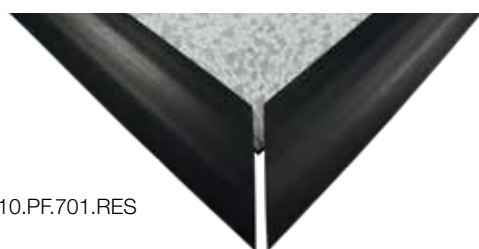
Interlocking system

Flooring material for „do it yourself“ floor laying

- Two layer material
- Volume conductive
- Abrasion resistant
- Conductive, elastic backing
- Backing with waffle structure for installation on problematic substrates (e.g. residual moisture)
- Suitable for chair castors
- Suitable for forklift traffic
- Reusable
- Self-laying (without glue)
- Easy handling using tools for woodwork
- Colour: grey



1310.PF.701.R



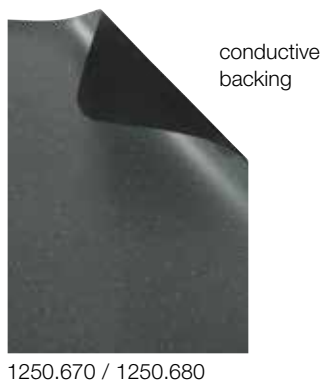
1310.PF.701.RES

IEC
EN

Part Nr.	Standard Size	Quantity
Puzzle tile		
1310.PF.701	469 x 469 x 8,5 mm	12 pieces (2,64 sqm)
1310.PF.ESD	469 x 469 x 8,5 mm with ESD symbol	1 piece
Transition (optional) – self-adhesive		
1310.PF.701.R	1220 x 65 mm	1 piece
Corner (optional) – self-adhesive		
1310.PF.701.RES	711 x 65 mm	2 pieces



ECOSTAT® – FLOORING



Flooring material for „do it yourself“ floor laying

- Two layer material
- Volume conductive
- Abrasion resistant
- Elastic
- Suitable for chair castors, depending on floor substrate
- Reusable
- Conductive backing
- Self-laying (without glue)

IEC
EN

Part Nr.	Standard Size	Thickness	Colour
ECOSTAT® Mega – Kautschuk			
1250.670.R	1,45 m x 10 m	2 mm	Grey
1250.670.Z	Custom sizes on request	2 mm	Grey
1250.680.R.2	1,22 m x 10 m	3,5 mm	Grey
1250.680.Z	Custom sizes on request	3,5 mm	Grey
ECOSTAT® Duo – 2.0 PVC			
1250.47002.R	1,5 m x 10 m	2 mm	Grey
1250.47002.Z	Custom sizes on request	2 mm	Grey

NEW

ECOSTAT® – STANDARD FLOOR MAT

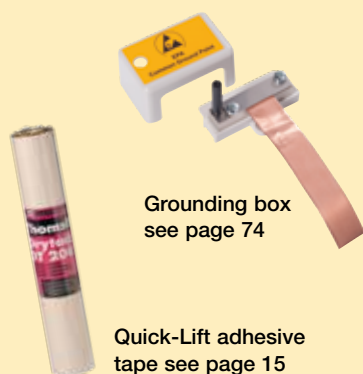
conductive
backing



- Rounded edges
- 2 x 10 mm snap
- Incl. Grounding Cord with protective cap, 10 mm snap/4 mm ring terminal, 1 Mohm safety resistor, 4,5 m length (Part Nr. 2250.790.2, see page 72)



ACCESSORIES



Part Nr.	Standard Size	Thickness	Colour
ECOSTAT® Mega – Rubber			
1250.671	1450 x 1650 mm	2 mm	Grey
1250.672	1450 x 2500 mm	2 mm	Grey
1250.681	1220 x 1650 mm	3,5 mm	Grey
1250.682	1220 x 2500 mm	3,5 mm	Grey
ECOSTAT® Duo – 2.0 PVC			
1250.47002.S	1500 x 1200 mm	2 mm	Grey
1250.47002.L	1500 x 2000 mm	2 mm	Grey

NEW

INSULATION SHEET



Dimensionally stable, humidity insulation sheet, for loose laying on problematic subfloors.

- Loose laying on subfloors
- For immediate use
- Regulates subfloor moisture
- Fast installation on problematic subfloors
- Medium mechanical loading
- Thickness: 1,3 mm

Part Nr.	Standard Size
1280.TF201	2,0 m x 35 m

„QUICK-LIFT“ ADHESIVE TAPE



Double-sided adhesive tape, specially for temporary flooring according to the quick-lift technique.

- For light industrial applications
- Accurate tensile strength
- Highly adhesive upper surface
- Bottom surface specially designed for quick lifting
- Prevents wavy floor installation

DT100: clean removal (lower adhesion)
DT200: for quick lifting

Part Nr.	Standard Size
1280.DT100	0,8 m x 25 m
1280.DT200	0,8 m x 25 m

SPECIAL ADHESIVES



1280.K188



1280.K112



1280.T412

Part Nr.	Pail	Consumption	
1280.K188	20 kg	app. 350 g/m ²	For Ecostat®-DF DUO-2.0 PVC
1280.K112	12 kg	app. 350 g/m ²	For Ecostat®-DF MEGA rubber
1280.T412	14 kg	app. 450 g/m ²	For Ecostat®-DF CENTRA-NV Polyamide

ECOSTAT®-DF POLYCAN WL 2



Instructions for use

Aluminum angle
for grounding
purposes

- Application without conductive layer
- **Dissipative, water based, 2 component epoxy paint**
- Glossy surface
- Colour grey ~ RAL 7035, other colours available on request
- Medium abrasion resistance
- Suitable for hard floors in EPA's
- Suitable for new and existing floors
- Easy application and rework using a roller
- Set includes a grounding connector
- Consumption: approx. 1 kg for 2,5 m² (2 applications)

IEC
EN

Part Nr.	Pail
1131.7035.WL2.10	10 kg

ECOSTAT®-DF POLYCAN MATT FINISH



Instructions for use

Aluminum angle
for grounding
purposes

- Application without conductive layer
- **Dissipative, solvent based, 2 component polyurethane paint**
- Matt finish
- Colour grey, ~ RAL 7035, other colours available on request
- Medium abrasion resistance
- For horizontal and vertical surfaces
- Suitable for hard and resilient surfaces in EPA's
- Suitable for new and existing floors
- Easy application and rework using a roller
- Set includes a grounding connector
- Consumption: approx. 1 kg for 4 m² (2 applications)

IEC
EN

Part Nr.	Pail
1132.7035.M.10	10 kg



EASY application using a roller



- Dissipative, waterbased, 2 component polyurethane sealer for the long-term protection of ESD flooring systems
- Matt finish
- Transparent
- Medium abrasion resistance
- For the preparation and long-term sealing of stressed surfaces
- Suitable for new and existing floors
- Easy application and rework using a roller
- Consumption approx. Basecoat: ca. 50 ml/m²
Consumption approx. Topcoat: ca. 50 ml/m²
(2 applications)



Instructions for use

IEC
EN

Part Nr.	Description	Pail
1140.BC.1	Basecoat with crosslinker	900 ml + 100 ml crosslinker
1140.TC.1	Topcoat with crosslinker	900 ml + 100 ml crosslinker

ECOSTAT® LAQUER-ROLLER-SET

NEW



- Laquer roll for ECOSTAT® ESD-Basecoat + Topcoat
- roll width: 25 cm

IEC
EN

Part Nr.	Description
1140.W.SET	Roller-set: handle + 1 roll
1140.W	Single roll

ECOSTAT® ANTI-FATIGUE MATS

„EASY STANDING“



Static dissipative Anti-Fatigue material, for use in EPA's with hard floors, improves worker comfort and productivity.

- Static dissipative PUR material
- Ergonomic
- Soft and Elastic
- Dome cell structure
- Improved standing comfort
- Heat and sound absorbent
- Improved Anti-Fatigue properties
- Possible extension by glueing
- Blister diameter: 14 mm

- **Class B1**
- Anti-skid and shock absorbent
- Bevel sides
- 10 mm snap connection
- Standard mats sizes

IEC
EN

Part Nr.	Standard Sizes	Colour
1306.B1.0650.0950	650 x 950 x 13 mm incl. 2 x 10 mm snap	Black
1306.B1.Z	Custom size on request	Black



Static dissipative Anti-Fatigue material, for use in EPA's with hard floors, improves worker comfort and productivity.

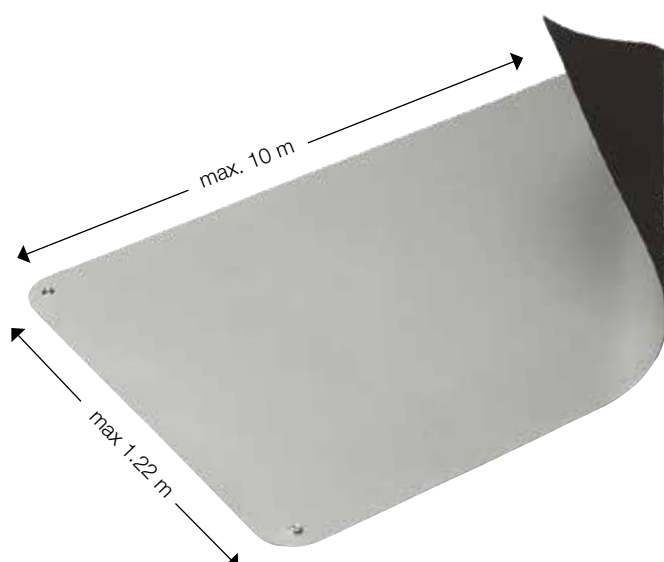
- Static dissipative PUR material
- Ergonomic
- Soft and Elastic
- Dome cell structure
- Improved standing comfort
- Heat and sound absorbent
- Improved Anti-Fatigue properties
- Interlocking mats for large area, easy extension
- Custom size available on request
- Smallest configuration: 2 end tiles

- Blister diameter: 8 mm
- **Class B1**
- Anti-skid and shock absorbent
- Bevel sides
- 10 mm snap connection
- Standard mats sizes

Custom sizes available on request

IEC
EN

Part Nr.	Standard Sizes	Colour
1307.B1.0650.0940.VE	End tile: 650 x 940 x 13 mm incl. 10 mm snap	Black
1307.B1.0650.0910.VM	Middle tile: 650 x 910 x 13 mm	Black
1307.B1.0650.0650.VC	Corner tile: 650 x 650 x 13 mm incl. 10 mm snap	Black
1307.B1.Q970.Q635.VE	End tile: 970 x 635 x 13 mm incl. 10 mm snap	Black
1307.B1.Q970.Q610.VM	Middle tile: 970 x 610 x 13 mm	Black
1307.B1.Z	Custom size on request	Black
2821.AL.50	self-adhesive aluminium tape, 50 m/roll	

ECOSTAT®
TABLE MATS


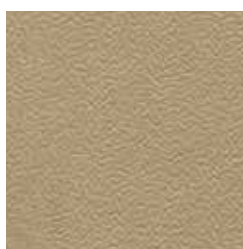
conductive
backing

- Two layer material
- Rugged synthetic rubber
- Resistant to solder and heat
- Abrasion resistant
- Halogen free
- Elastic
- Volume conductive
- Thickness: 2 mm
- Includes 2 x 10 mm snap fastener and rounded edges*

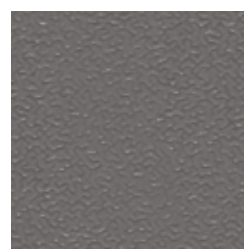


Profile

IEC
EN



Part Nr.	Colour	Standard Sizes
1402.662.L*	Beige	610 x 1220 mm
1402.662.S*	Beige	610 x 900 mm
1402.662.R		rolls: 1220 mm x 10 m
1402.662.R10		rolls: 1000 mm x 10 m
1402.662.R61		rolls: 610 mm x 10 m
1402.662.Z		Custom sizes available on request
*rounded edges (radius approx. 43 mm)		



Part Nr.	Colour	Standard Sizes
1402.663.L*	Platinum grey	610 x 1220 mm
1402.663.S*	Platinum grey	610 x 900 mm
1402.663.R		rolls: 1220 mm x 10 m
1402.663.R10		rolls: 1000 mm x 10 m
1402.663.R61		rolls: 610 mm x 10 m
1402.663.Z		Custom sizes available on request
*rounded edges (radius approx. 43 mm)		



Part Nr.	Colour	Standard Sizes
1402.664.L*	Green	610 x 1220 mm
1402.664.S*	Green	610 x 900 mm
1402.664.R		rolls: 1220 mm x 10 m
1402.664.R61		rolls: 610 mm x 10 m
1402.664.Z		Custom sizes available on request
*rounded edges (radius approx. 43 mm)		



Part Nr.	Colour	Standard Sizes
1402.665.L*	Light blue	610 x 1220 mm
1402.665.S*	Light blue	610 x 900 mm
1402.665.R		rolls: 1220 mm x 10 m
1402.665.R10		rolls: 1000 mm x 10 m
1402.665.R61		rolls: 610 mm x 10 m
1402.665.Z		Custom sizes available on request
*rounded edges (radius approx. 43 mm)		



1432.663



1432.665



Profile

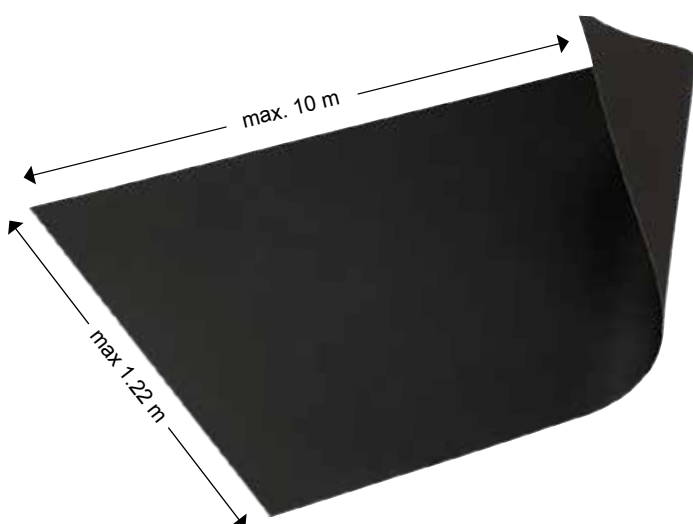
- Three-layer material with foamed core
- Top and bottom made of rugged synthetic rubber
- Conductive backing
- Resistant to solder and heat
- Abrasion resistant
- Halogen free
- Elastic
- Volume conductive
- Shock-absorbing, e.g. for the handling of sensitive equipment
- Thickness: 3 mm
- Includes 2 x 10 mm snap fastener and

IEC
EN

Part Nr.	Colour	Standard Sizes
1432.663.L*	Platinum grey	610 x 1220 mm
1432.663.S*	Platinum grey	610 x 900 mm
1432.663.R		rolls: 1220 mm x 10 m
1432.663.R61		rolls: 610 mm x 10 m
1432.663.Z		Custom sizes available on request
*rounded edges (radius approx. 43 mm)		

Part Nr.	Colour	Standard Sizes
1432.665.L*	Royal blue	610 x 1220 mm
1432.665.S*	Royal blue	610 x 900 mm
1432.665.R		rolls: 1220 mm x 10 m
1432.665.R61		rolls: 610 mm x 10 m
1432.665.Z		Custom sizes available on request
*rounded edges (radius approx. 43 mm)		

ECOSTAT®
MATS FOR SHELVES

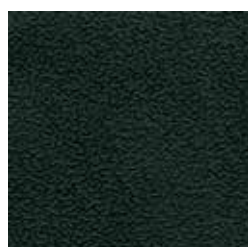


conductive
backing

- Two layer material
- Rugged synthetic rubber
- Resistant to solder and heat
- Abrasion resistant
- Halogen free
- Elastic
- Volume conductive
- Thickness: 1,5 mm

IEC
EN

Part Nr.	Colour	Standard Sizes
1452.659.R	Black	rolls: 1220 mm x 10 m
1452.659.R61	Black	rolls: 610 mm x 10 m
1452.659.R40	Black	rolls: 400 mm x 10 m
1452.659.Z		Custom sizes available on request



ECOSTAT® RUBBER MAT



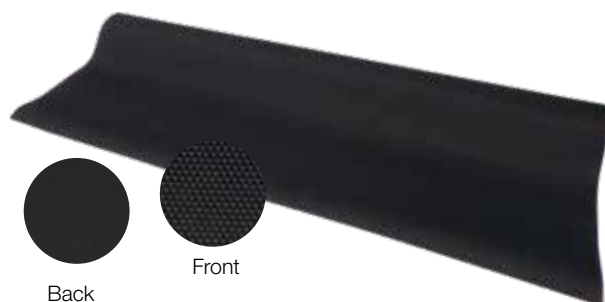
- Permanent, carbon loaded, conductive rubber
- For carts and transport rollis
- Durable, low-wear, synthetic rubber
- Slip resistant
- Thickness: 3 mm

IEC
EN

Part Nr.	Colour	Standard Sizes
1451.7206.R	Black	rolls: 1200 mm x 10 m
1451.7206.Z		Custom sizes available on request

ECOSTAT® ANTI SLIP MAT

NEW



- Anti slip profile, lengthwise and crosswise – double-sided
- Permanent, carbon loaded, conductive rubber
- For carts and transport rollis
- Durable, low-wear, synthetic rubber
- Thickness: 2 mm

IEC
EN

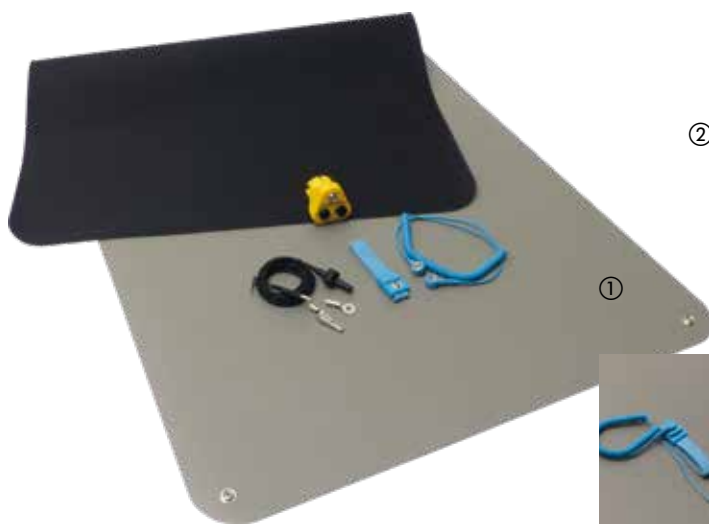
Part Nr.	Colour	Standard Sizes
1453.7300.R	Black	rolls: 1220 mm x 10 m
1453.7300.Z		Custom sizes available on request



ESD cleaner for dissipative and conductive surfaces see page 184



TABLE MAT SET



②



④



③



⑤



①



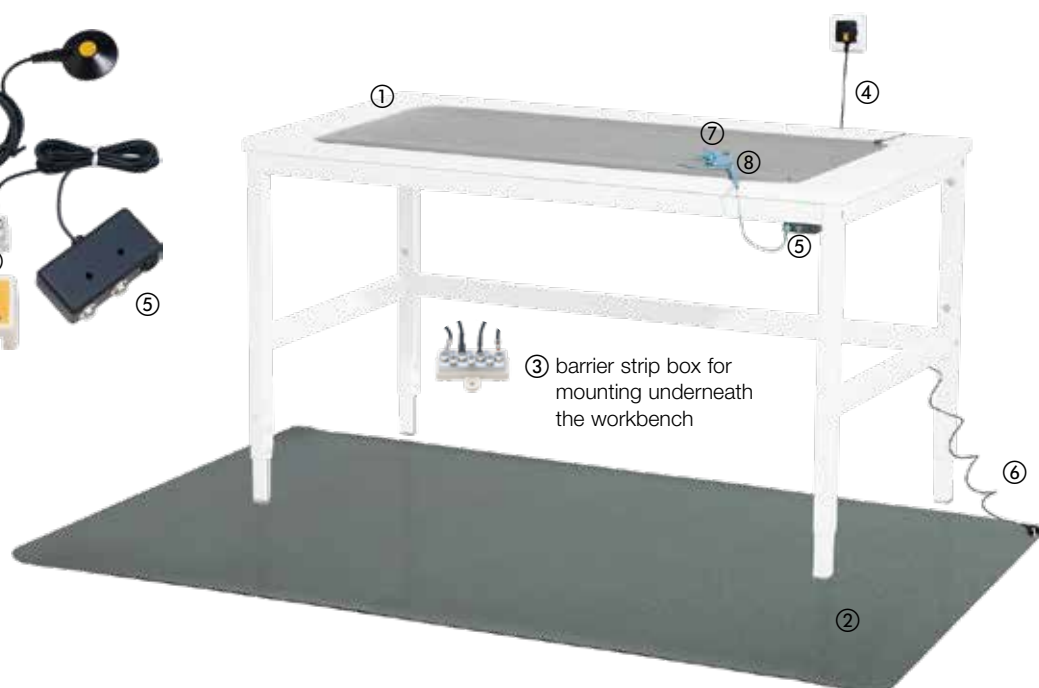
application example

IEC
EN

Part Nr.	
1402.690.SET	Table mat set, includes:
① 1402.663.L	1 table mat 610 x 1220 x 2 mm
② 2201.258	1 grounding plug without cable, 1 MOhm resistor; 1 x 10 mm snap, 2 x 4 mm banana plug socket
③ 2250.757	1 grounding cord , 10 mm encapsulated snap / banana plug socket, length: 3 m
④ 2050.750.7	1 adjustable wrist strap
⑤ 2100.752.7.10	1 coil cord 2,4 m



Sample connection of the barrier strip box (3)



1



2



2b



3



4



5



6



7



8



ESD cleaner for
dissipative and
conductive surfaces
see page 184



Part Nr.

1250.683

Workstation set, includes:

1 1402.663.L

1 table mat 610 x 1220 x 2 mm

2 1250.682

1 floor mat made of synthetic rubber 1220 x 2500 x 3,5 mm

3 2200.B

1 barrier strip box for 7 wires connection

4 2200.113

1 grounding plug with a 4 mm ring terminal

5 2200.121.10

1 earth connecting box with 2 x 10 mm snaps and 1 x 4 mm banana plug socket

6 2250.790

2 grounding cords with protective cap, 10 mm snap and a 4 mm ring terminal

7 2050.750.3

1 adjustable wrist strap

8 2100.752.3.10

1 coil cord 2,4 m

1250.473

Workstation set, includes:

1 1402.663.L

1 table mat 610 x 1220 x 2 mm

2b 1250.47002.L

1 floor mat PVC 1500 x 2000 x 2,0 mm

3 2200.B

1 barrier strip box for 7 wires connection

4 2200.113

1 grounding plug with a 4 mm ring terminal

5 2200.121.10

1 earth connecting box with 2 x 10 mm snaps and 1 x 4 mm banana plug socket

6 2250.790

2 grounding cords with protective cap, 10 mm snap and a 4 mm ring terminal

7 2050.750.3

1 adjustable wrist strap

8 2100.752.3.10

1 coil cord 2,4 m



Overview		page
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⑫	Cabinets + Partitions for drawers	28-29



- Metallic support 40 x 40 x 2 mm
- Reinforced metallic construction
- Workbench adjustable height between 750 and 950 mm
- Conductive grey paint finish
- Benchtop made of conductive chipboard and static dissipative hard laminate
- Includes 1 earth connecting box with 2 x 10 mm snaps and 1 x 4 mm banana plug socket
- Not mounted

IEC
EN

Part Nr.	Standard dimensions (W x D x H)
1950.LC.3906	1200 x 800 x 750 - 950 mm
1950.LC.3036	1250 x 800 x 750 - 950 mm
1950.LC.3056	1500 x 800 x 750 - 950 mm
1950.LC.3916	1600 x 800 x 750 - 950 mm
1950.LC.3086	1750 x 800 x 750 - 950 mm
1950.LC.3116	2000 x 800 x 750 - 950 mm



Electrically height-adjustable table



C-profile table

2 ALUMINIUM POSTS 2100



- 4 sides selection
- Anodized aluminium profile 45 x 45 mm continuously adjustable height, profile length 1950 mm
- Usable height app. 1500 mm
- Flexible repositioning system
- Cross connecting bar
- Sliding rail frame
- Sliding rail
- Height: 2100 mm

Part Nr.	Dimensions
1950.LC.8311	1200 mm table length
1950.LC.8312	1250 mm table length
1950.LC.8313	1500 mm table length
1950.LC.8314	1600 mm table length
1950.LC.8315	1750 mm table length
1950.LC.8316	2000 mm table length

3 ADDITIONAL SLIDING RAIL



- Additional sliding rail for equipment installation

Part Nr.	Dimensions
1950.LZ.3898	1200 mm table length
1950.LZ.3892	1250 mm table length
1950.LZ.3893	1500 mm table length
1950.LZ.3899	1600 mm table length
1950.LZ.3894	1750 mm table length
1950.LZ.3895	2000 mm table length

4 GALVANIZED SLIDING HANGER



- Galvanized sliding hanger
- 20 kg load-bearing capacity
- Width 80 mm

Part Nr.
1950.LZ.3406

5 CONTINUOUSLY ADJUSTABLE SHELF



- Continuously adjustable shelf, with front edge 195 / 345 / 495 mm depth available
- Load bearing capacity: 40 kg
- Dissipative powder coating

for 345 mm depth

Part Nr.	Dimensions
1950.LZ.8308	1200 mm table length
1950.LZ.8302	1250 mm table length
1950.LZ.8303	1500 mm table length
1950.LZ.8309	1600 mm table length
1950.LZ.8304	1750 mm table length
1950.LZ.8305	2000 mm table length

6 MOVEABLE STORAGE RACK



- Articulated, moveable storage rack holder
700 mm length
- Load bearing capacity: 15 kg
- Dissipative powder coating

7 STORAGE RACK



application example

- Storage rack, 3 compartments
- Dissipative powder coating

Delivered without storage bins

Part Nr.	Dimensions
1950.LZ.8248	435 x 165 x 120 mm

Part Nr.	Dimensions
1950.LZ.3901	430 x 155 x 310 mm

8 STORAGE RACK HOLDER



sample application

- Extra storage rack holder 15 kg load-bearing capacity
- Dissipative powder coating

Delivered without device

9 STORAGE BIN HOLDER



sample application

- Continuously adjustable storage bin holder
- 40 kg load-bearing capacity
- Galvanized steel

Delivered without storage bins

Part Nr.	Dimensions
1950.LZ.8235	370 x 370 mm

Part Nr.	Dimensions
1950.LZ.8328	1200 mm table length
1950.LZ.8322	1250 mm table length
1950.LZ.8323	1500 mm table length
1950.LZ.8329	1600 mm table length
1950.LZ.8324	1750 mm table length
1950.LZ.8325	2000 mm table length

10

METALLIC CABLE CONDUIT



11

INTEGRATED LED TASK LIGHT



- Integrated task light with LED, approx. 26 W
Luminous Colour 4000 K

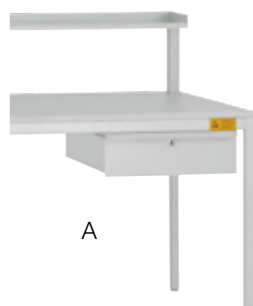


Available on request.

Part Nr.	Dimension (L x W x H)
1930.TAMETO.SAHQ	956 x 187 x 50 mm

12

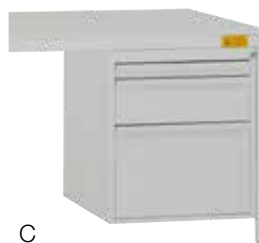
CABINETS – FIXED



A



B



C



D



E



F

Cabinets (A-F)

- Solid metal construction with conductive grey paint
- Dimensions: 500 x 580 x 360 mm / 500 x 580 x 560 mm (W x D x H)
- Easy opening drawers
- With central lock
- Fixed
- Dissipative powder coating

Suitable only for tables
Part Nr. 1950.LC.XXXIEC
EN

Part Nr.	Height	Drawer height	Drawers
A 1950.LC.4133	150 mm	150 mm	1
B 1950.LC.4792	300 mm	3 x 100 mm	3
C 1950.LC.4003	500 mm	1 x 50 / 1 x 150 / 1 x 300 mm	3
D 1950.LC.4882	500 mm	1 x 50 / 1 x 100 / 1 x 150 / 1 x 200 mm	4
E 1950.LC.4002	500 mm	1 x 50 / 3 x 100 / 1 x 150 mm	5
F 1950.LC.4001	500 mm	5 x 100 mm	5



G



H



I



J



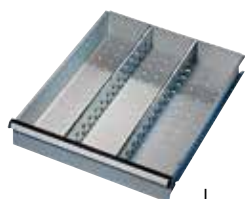
K

Cabinets (G-K)

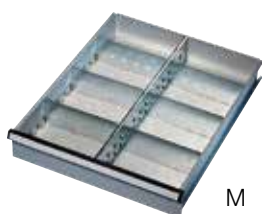
- Solid metal construction with dissipative powder coating
- Dimensions incl. handle: 500 x 640 x 730 mm (W x D x H)
(Part Nr. 1950.LS.1003: 500 x 580 x 620 mm (W x D x H))
- Easy opening drawers
- With central lock
- Moveable
- Suitable for height adjustable workbenches
- Dissipative powder coating

IEC
EN

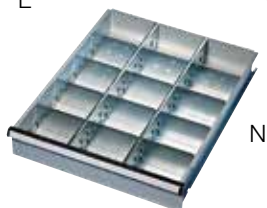
Part Nr.	Height	Drawer height	Drawers
G 1950.LS.1006	500 mm	1 x 50 / 1 x 150 / 1 x 300 mm	3
H 1950.LS.1043	500 mm	1 x 50 / 1 x 100 / 1 x 150 / 1 x 200 mm	4
I 1950.LS.1004	500 mm	5 x 100 mm	5
J 1950.LS.1005	500 mm	1 x 50 / 3 x 100 / 1 x 150 mm	5
K 1950.LS.1003	400 mm	1 x 50 / 2 x 100 / 1 x 150 mm	4



L



M



N

- Galvanized steel systems
- For self assembly
- Adjustable partitions
- Height: 80 mm

Part Nr.	Set	Drawer height	number of usable partitions
L 1950.ZB.3011	1	100 – 300 mm	3
M 1950.ZB.3012	2	100 – 300 mm	8
N 1950.ZB.3013	3	100 – 300 mm	15



- For width 180 – 250 mm
- Up to 450 mm depth
- Continuous height adjustment

Part Nr.
1950.LZ.3590

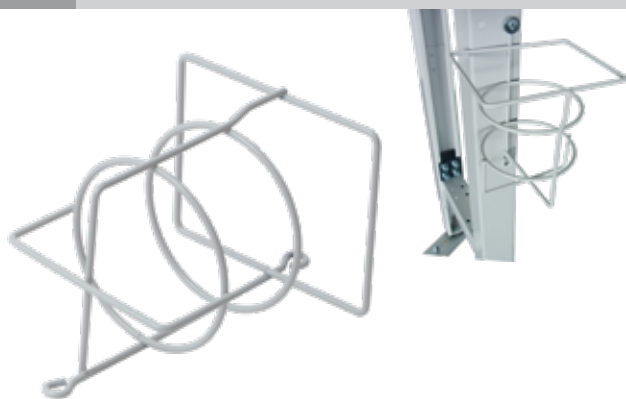
TOOL HOLDER PLATE



- Dissipative powder coating

Part Nr.	Dimensions
1950.LZ.8276	350 x 1200 mm table length
1950.LZ.8272	350 x 1250 mm table length
1950.LZ.8273	350 x 1500 mm table length
1950.LZ.8281	350 x 1600 mm table length
1950.LZ.8274	350 x 1750 mm table length
1950.LZ.8275	350 x 2000 mm table length

BOTTLE HOLDER

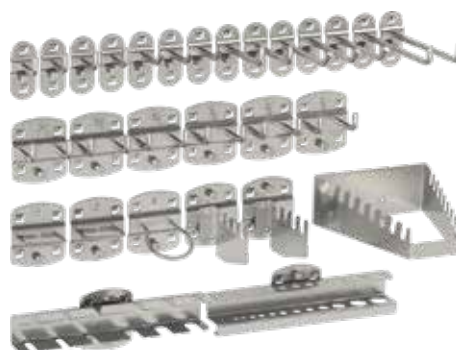


For all commercially available bottles and cans

- Made of steel wire, coated, not conductive
- W x D 135 x 115 mm
- Bottle max. Ø 90 mm
- Total height: 200 mm
- Incl. 2x mounting screws

Part Nr.	Colour
1950.ZB.3573	Grey

HOOK ASSORTMENT



- 28 pieces
- For use on the tool holder plate
- Conductive

Part Nr.
1950.LZ.8285

MONITOR-/KEYBOARD SUPPORT



- Incl. mouse surface
- double jointed arm
- Dissipative powder coating

Part Nr.	Mounting panel
1950.LZ.8200	75 mm
1950.LZ.8201	100 mm

BENCHTOPS



Conductive chipboard

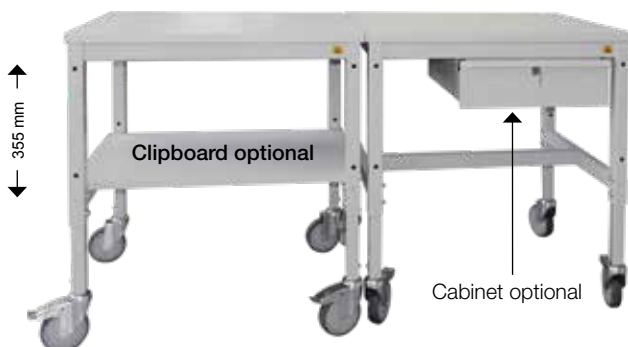
- Replacements benchtops for upgrading existing benches in offices and laboratories
- Hard laminate top side bonded with a conductive glue to a volume conductive chipboard
- Balance hard laminate on the underside
- Available edge: grey ABS
- Standard thickness: 27 mm

Custom sizes and other top side material on request

IEC
EN

Part Nr.	Colour
1920.Z	Light grey

MOBILE SIDE TABLE ON WHEELS



- Metallic support 40 x 40 x 2 mm
- Reinforced metallic construction
- Conductive grey paint finish
- Benchtop made of conductive chipboard and static dissipative hard laminate, 27 mm
- Colour: grey
- 4 Swivel-Castors, 2 with brake

Custom sizes available on request!

IEC
EN

Part Nr.	Standard dimensions (W x D x H)
1950.LC.3941.MOB	800 x 600 x 752 - 952 mm
1950.LC.3941.MOB.ZA	Clipboard optional, 800 x 500 mm, 25 mm, melamine resin coated
1950.LC.3941.MOB.SB	Cabinet

SHELVES

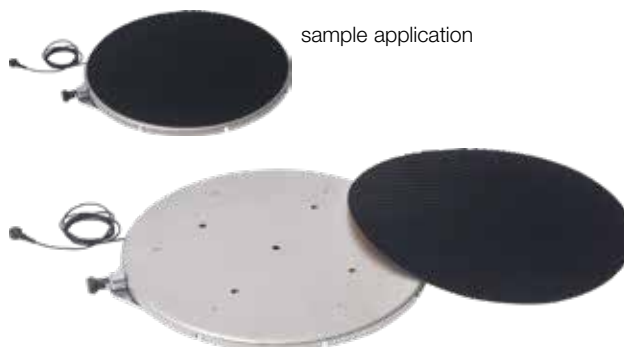


- Shelf unit with 2 or 3 supports, height: 350 mm
- Can be mounted on a benchtop (incl. screws)
- Top side coated with dissipative melamine resin, depth: 300 mm, thickness: 25 mm
- Dissipative powder coating
- Maximum load 60 kg

IEC
EN

Part Nr.	Standard dimensions	supports
1950.LZ.8333	1200 mm length	2
1950.LZ.8334	1250 mm length	3
1950.LZ.8335	1500 mm length	3
1950.LZ.8336	1600 mm length	3
1950.LZ.8337	1750 mm length	3
1950.LZ.8338	2000 mm length	3

ROTARY PLATE



- Rotary Plate suitable as mounting aid
- 365 x 17 mm stainless steel with 4 x M6 standard threaded
- 330 mm Rotating assembly with stainless steel ball
- Arrest 8 x 45°
- Axial load max. 300kg
- Weight 4 kg
- Grounding via grounding cord with 10 mm snap
- Supplied with dissipative black ECOSTAT® rubber mat which can be glued to metallic surface

IEC
EN

Part Nr.	dimensions
1955.DT	Ø 365 mm, Height: 17 mm



WORKBENCHES MELAMINE RESIN COATED

HEIGHT ADJUSTABLE VERSION



- Metallic support, 50 x 40 mm with 2 rugged frames
- Workbench adjustable height between 763 and 873 mm
- Dissipative powder coating
- Benchtop made of conductive chipboard and static dissipative melamine resin
- Includes 1 earth connecting box with 2 x 10 mm snaps and 1 x 4 mm banana plug socket
- Suitable for light mechanical work
- Not mounted

IEC
EN

Part Nr.	Standard dimensions (W x D x H)
Standard table	
1950.LU.4018	1000 x 800 x 763 – 873 mm
1950.LU.4038	1250 x 800 x 763 – 873 mm
1950.LU.4058	1500 x 800 x 763 – 873 mm
1950.LU.4088	1750 x 800 x 763 – 873 mm
1950.LU.4118	2000 x 800 x 763 – 873 mm
Extension table (Standard table required!)	
1950.LU.6018	1000 x 800 x 763 – 873 mm
1950.LU.6038	1250 x 800 x 763 – 873 mm
1950.LU.6058	1500 x 800 x 763 – 873 mm
1950.LU.6088	1750 x 800 x 763 – 873 mm
1950.LU.6118	2000 x 800 x 763 – 873 mm

ALUMINIUM POSTS



- 4 sides selection
- Anodized aluminium profile 45 x 45 mm continuously adjustable height, profile length 1950 mm
- Usable height app. 1500 mm
- Flexible repositioning system
- Cross connecting bar
- Sliding rail frame
- Sliding rail
- Height: 2100 mm



Suitable only for tables
Part Nr. 1950.LU.XXX

Part Nr.	Dimensions	suitable for table width
1950.LU.8312	1235 x 655 x 1950 mm	1250 mm
1950.LU.8313	1485 x 655 x 1950 mm	1500 mm
1950.LU.8315	1735 x 655 x 1950 mm	1750 mm
1950.LU.8316	1985 x 655 x 1950 mm	2000 mm



A



B



Suitable only for tables
Part Nr. 1950.LU.XXX



C



D

Cabinets (A-D)

- Solid metal construction with conductive grey paint
- Dimensions: 500 x 580 x 360 mm / 500 x 580 x 560 mm (W x D x H)
- Easy opening drawers
- With central lock
- Fixed

IEC
EN

Part Nr.	Height	Drawer height	Drawers
A 1950.LZ.4562	300 mm	1 x 100 / 1 x 200 mm	2
B 1950.LZ.4662	300 mm	1 x 50 / 1 x 100 / 1 x 150 mm	3
C 1950.LZ.4762	500 mm	1 x 50 / 1 x 100 / 1 x 150 / 1 x 200 mm	4
D 1950.LZ.4812	500 mm	3 x 100 / 1 x 200 mm	4

ACCESSORIES FOR MELAMINE RESIN COATED WORKBENCHES



application examples



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Tool Holder Plate	30
Monitor- /Keyboard Support	30
Shelves	31



EPA-TASK LIGHTING MAGNIFIER TEVISIO-LED



1930.TEVISIO.784



1930.TEVISIO.D3.5



sample application

- Simple operation with multi-function switch
- Light segments separately switchable to three different light scenarios
- Lighting intensity 6000 lx at only 14 W power consumption
- Made of static dissipative material
- Continuously dimmable down to 10 %
- 3.5 diopter lens Ø 153 mm, with special conductive coating
- Grounding with 10 mm snap
- Power supply: 100-240 V, 50/60Hz, 3,8 m cord
- Fitted with 48 multichip LEDs
- 3 D joint, light head can be positioned in all planes
- Mounting: with mounting clamp

Part Nr.

1930.TEVISIO.784 EPA task lighting magnifier TEVISIO – mounting arm: 784 mm

1930.TEVISIO.984 EPA task lighting magnifier TEVISIO – mounting arm: 984 mm

1930.TEVISIO.D3.5 Snap on Lense for TEVISIO

1930.K Mounting clamp, span: 0-65 mm

1930.K.2 Mounting clamp, span: 65-135 mm

EPA-TASK LIGHTING MAGNIFIER SNLQ-LED ESD

NEW



1930.SNL.D4



1930.SNL.LED

1930.K /
1930.K.2

- LED technology (maintenance-free)
- Made of static dissipative materials
- 3 diopter stadium shaped lens 175 x 105 mm
- Glass magnifier, with special conductive coating
- Segment switching for detection of finest structures and faults
- LED 12W/230V / colour 4000K
- Extends reach ideal for ESD workstations
- Mounting: with mounting clamp
- ESD symbol

Snap on Lense for SNLQ LED:

- Made of static dissipative materials to snap onto the magnifier SNLQ LED
- 7 diopter of SNLQ LED in combination with snap on lense
- Glass magnifier, specially coated

Part Nr.

1930.SNL.LED Task lighting magnifier SNLQ LED

1930.K Mounting clamp, span 0-65 mm

1930.K.2 Mounting clamp, span 65-135 mm

1930.SNL.D4 Snap on Lense for SNLQ LED

EPA WORK PLACE LIGHTING Taneo LED



without swivel arm (SARL)



with swivel arm (SARKL)

- Chassis made of aluminum with ESD coating
- Colour temperature 4.700 to 5.300 K
- Continuously dimmable down to 10%
- 30 % energy savings
- Power supply: 100-240 V, 50/60Hz
- Mounting: with mounting bracket (horizontal)

Part Nr.

1930.TANEO.SARL TANEO without swivel arm, 24 LEDs

1930.TANEO.SARKL TANEO with swivel arm, 12 LEDs

EPA WORK PLACE LIGHTING TAMETO LED



- Chassis made of aluminum and plastic with ESD coating
- Colour temperature 4.000 K, approx. 23 W
- Rocker switch
- Power supply: 220-240 V, 50/60Hz
- Mounting: with mounting bracket

Part Nr.

1930.TAMETO.SAHKQ TAMETO, 2 LED modules

EPA WORK PLACE LIGHTING Taneo LED



- Made of static dissipative material
- Colour temperature 4.000 K to 5.000 K
- Continuously dimmable down to 10%
- 30 % energy savings
- Grounding with 10 mm snap
- Power supply: 100-240 V, 50/60Hz
- Mounting: with mounting clamp

Part Nr.

1930.TANEO.STZL TANEO, 24 LED's

1930.K Mounting clamp, span 0-65 mm

1930.K.2 Mounting clamp, span 65-135 mm

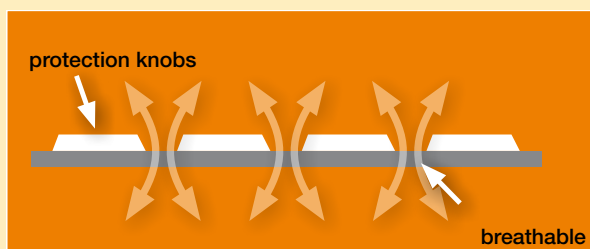


SUPERTEC

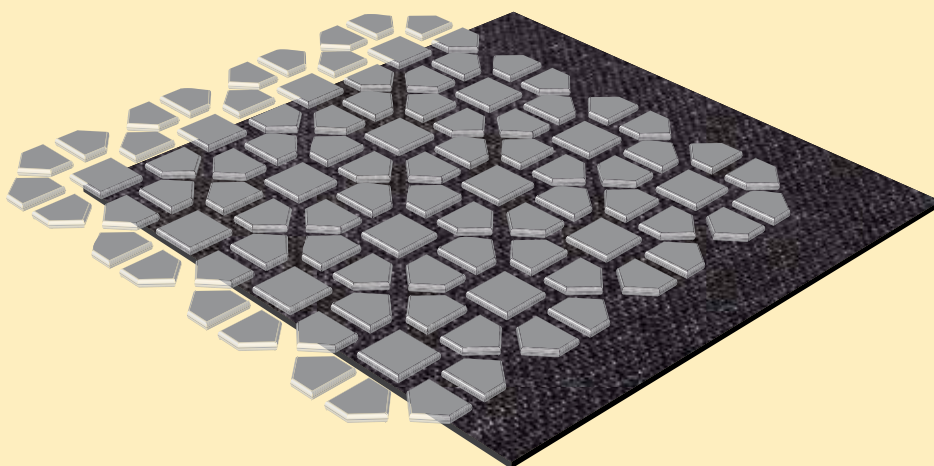
NEW

Supertec is **the world novelty** among the reference materials. Due to its micropigmentation, it combines the advantages of fabric and integral foam.

- smooth and comfortable
- breathable
- very rugged
- cut resistant
- slip resistant
- easy to clean



Partially hard, but overall very soft.



smooth
and comfortable



easy to clean



very rugged due to
special plating



breathable



ERGO STANDARD MODEL

NEW

The **ERGO CHAIR** provides a perfect sitting comfort due to its high resilient foam contoured seat. It drains static charges safely, continuously and passively from seated personnel when used in conjunction with conductive flooring or floor mats.

- 5 star base made of chromed aluminium with 5 conductive, soft castors
- Safety gas lift
- Gas lift height adjustment, 430 – 600 mm
- Adjustable seat height, depth and angle
- Seat and **dynamic back rest** mechanism, individually adjustable
- High quality molded foam pads for perfect comfort
- Conductive plastic back seat shell with ESD symbol
- Back seat with conductive black fabric and ESD symbol
- Standard self-breaking conductive soft castors
- GS certified

Covers:

• Fabric + Synthetic leather:

Hard-wearing and conductive upholstery cover for the seat and backrest in black fabric or black synthetic leather

• SUPERTEC:

Very durable and conductive SUPERTEC cover for seat and backrest in color gray



Part Nr.	Colour	Accessories
1700.ERG.S	Fabric, black	without armrests
1700.ERG.K	Synthetic leather, black	without armrests
1700.ERG.ST	SUPERTEC, grey	without armrests
Accessories		
1700.KS.13	Hard, conductive castors (for carpet floors)	
1700.XS.KSP	Dissipative armrests	

ERGO HIGH MODEL

NEW

The **ERGO CHAIR** provides a perfect sitting comfort due to its high resilient foam contoured seat. It drains static charges safely, continuously and passively from seated personnel when used in conjunction with conductive flooring or floor mats.

- **Seat height from 570 to 850 mm**
- **Star base with 5 conductive glides**
- Chromed foot ring, **continuously height adjustable**
- Safety gas lift
- Adjustable seat height, depth and angle
- Seat and **dynamic back rest** mechanism, individually adjustable
- High quality molded foam pads for perfect comfort
- Conductive plastic back seat shell with ESD symbol
- Back seat with conductive black fabric and ESD symbol
- GS certified

Covers:

• Fabric + Synthetic leather:

Hard-wearing and conductive upholstery cover for the seat and backrest in black fabric or black synthetic leather

• SUPERTEC:

Very durable and conductive SUPERTEC cover for seat and backrest in color gray



Part Nr.	Colour	Accessories
1710.ERG.S	Fabric, black	without armrests
1710.ERG.K	Synthetic leather, black	without armrests
1710.ERG.ST	SUPERTEC, grey	without armrests
Accessories		
1700.XS.KSP	Dissipative armrests	





COMFORT PLUS STANDARD MODEL

The **COMFORT PLUS CHAIR** provides a perfect sitting comfort due to its high resilient foam contoured seat. It drains static charges safely, continuously and passively from seated personnel when used in conjunction with conductive flooring or floor mats.

- 5 star base made of chromed aluminium with 5 conductive, soft castors
- Safety gas lift
- Gas lift height adjustment, 430 - 540 mm
- Adjustable seat height, depth and angle
- Mechanism with synchronous technology
- Seat and **dynamic back rest** mechanism, individually adjustable
- High quality molded foam pads for perfect comfort
- Conductive plastic back seat shell with ESD symbol
- Back seat with conductive black fabric and ESD symbol
- Standard self-breaking conductive soft castors
- GS certified

Covers:

- **Fabric:**
Hard-wearing and conductive upholstery cover for the seat and backrest in black fabric
- **SUPERTEC:**
Very durable and conductive SUPERTEC cover for seat and backrest in color gray



Part Nr.	Colour	Accessories
1700.KSP.S	Fabric, black	without armrests
1700.KSP.ST	SUPERTEC, grey	without armrests
Accessories		
1700.KS.13	Hard, conductive castors (for carpet floors)	
1700.XS.KSP	Dissipative armrests	

COMFORT PLUS HIGH MODEL

The **COMFORT PLUS CHAIR** provides a perfect sitting comfort due to its high resilient foam contoured seat. It drains static charges safely, continuously and passively from seated personnel when used in conjunction with conductive flooring or floor mats.

- **Seat height from 610 to 850 mm**
- **Star base with 5 conductive glides**
- Chromed foot ring, **continously height adjustable**
- Safety gas lift
- Adjustable seat height, depth and angle
- Mechanism with synchronous technology
- Seat and **dynamic back rest** mechanism, individually adjustable
- High quality molded foam pads for perfect comfort
- Conductive plastic back seat shell with ESD symbol
- Back seat with conductive black fabric and ESD symbol
- GS certified

Covers:

- **Fabric:**
Hard-wearing and conductive upholstery cover for the seat and backrest in black fabric
- **SUPERTEC:**
Very durable and conductive SUPERTEC cover for seat and backrest in color gray



Part Nr.	Colour	Accessories
1710.KSP.S	Fabric, black	without armrests
1710.KSP.ST	SUPERTEC, grey	without armrests
Accessories		
1700.XS.KSP	Dissipative armrests	

NEW

NEW



Back with
ESD symbol



Optional armrests
(height adjustable)



COMFORT STANDARD MODEL

The **COMFORT CHAIR** provides an exceptional sitting comfort due to its high resilient foam contoured seat. It drains static charges safely, continuously and passively from seated personnel when used in conjunction with conductive flooring or floor mats.

- 5 star base made of chromed aluminium with 5 conductive, soft castors
- Safety gas lift
- Gas lift height adjustment, 430 - 570 mm
- Asynchronous mechanism
- Seat and **dynamic back rest** mechanism, individually adjustable
- Upholstered with a conductive fabric
- Conductive plastic back seat shell with ESD symbol
- Standard self-breaking conductive castors
- GS certified

COMFORT HIGH MODEL

The **COMFORT CHAIR** provides an exceptional sitting comfort due to its high resilient foam contoured seat. It drains static charges safely, continuously and passively from seated personnel when used in conjunction with conductive flooring or floor mats.

- **Seat height from 670 to 810 mm, star base with 5 conductive glides and a chromed foot ring**
- Safety gas lift
- Asynchronous mechanism
- Seat and **dynamic back rest** mechanism, individually adjustable
- Upholstered with a conductive fabric
- Conductive plastic back seat shell with ESD symbol
- GS certified

IEC
EN



Part Nr.	Colour	Accessories
1700.KS.B	Blue	without armrests
1700.KS.D	Grey	without armrests
1700.KS.S	Black	without armrests
Accessories		
1700.KS.13	Hard, conductive castors (for carpet floors)	
1700.XS	Dissipative armrests	

IEC
EN

Part Nr.	Colour	Accessories
1710.KS.B	Blue	without armrests
1710.KS.D	Grey	without armrests
1710.KS.S	Black	without armrests
Accessories		
1700.XS	Dissipative armrests	



Optional armrests
(height adjustable)Back with
ESD symbol

ECONOMY PLUS STANDARD MODEL

The **ECONOMY PLUS CHAIR** is designed to provide comfort and safety to the user. It drains static charges safely, continuously and passively from seated personnel when used in conjunction with conductive flooring or floor mats.

- 5 star base made of chromed aluminium with 5 conductive, soft castors
- Safety gas lift
- Gas lift height adjustment, 430 - 540 mm
- Seat and **dynamic back rest** mechanism, individually adjustable
- Upholstered with a conductive black fabric
- Extended dynamic back rest with spinal cavity, individually adjustable
- Conductive back seat shell with ESD symbol
- Standard self-breaking conductive soft castors
- GS certified



Part Nr.	Colour	Accessories
1700.ESP.S	Black	without armrests
Accessories		
1700.KS.13	Hard, conductive castors (for carpet floors)	
1700.XS	Dissipative armrests	

ECONOMY PLUS HIGH MODEL

The **ECONOMY PLUS CHAIR** is designed to provide comfort and safety to the user. It drains static charges safely, continuously and passively from seated personnel when used in conjunction with conductive flooring or floor mats.

- **Seat height from 670 to 800 mm, star base with 5 conductive glides and a chromed foot ring**
- Safety gas lift
- Seat and **dynamic back rest** mechanism, individually adjustable
- Upholstered with a conductive black fabric
- Extended dynamic back rest with spinal cavity, individually adjustable
- Conductive back seat shell with ESD symbol
- GS certified



Part Nr.	Colour	Accessories
1710.ESP.S	Black	without armrests
Accessories		
1700.XS	Dissipative armrests	



ECONOMY STANDARD MODEL

The **ECONOMY CHAIR** is designed to provide comfort and safety to the user. It drains static charges safely, continuously and passively from seated personnel when used in conjunction with conductive flooring or floor mats.

- 5 star base made of chromed aluminium with 5 conductive castors
- Safety gas lift
- Gas lift height adjustment, 400 - 520 mm
- Upholstered with a conductive blue or grey fabric
- Conductive back seat shell with ESD symbol
- Standard self-breaking conductive castors
- GS certified



Optional armrests
(height adjustable)



Back with
ESD symbol



ECONOMY HIGH MODEL

The **ECONOMY CHAIR** is designed to provide comfort and safety to the user. It drains static charges safely, continuously and passively from seated personnel when used in conjunction with conductive flooring or floor mats.

- **Seat height from 640 to 760 mm, star base with 5 conductive glides and a chromed foot ring**
- Safety gas lift
- Upholstered with a conductive blue or grey fabric
- Conductive back seat shell with ESD symbol
- GS certified

IEC
EN



Part Nr.	Colour	Accessories
1700.ES.B	Blue	without armrests
1700.ES.D	Grey	without armrests
Accessories		
1700.KS.13	Hard, conductive castors (for carpet floors)	
1700.XS	Dissipative armrests	

IEC
EN

Part Nr.	Colour	Accessories
1710.ES.B	Blue	without armrests
1710.ES.D	Grey	without armrests
Accessories		
1700.XS	Dissipative armrests	



Back with
ESD symbol

INDUSTRIAL PU-CHAIR STANDARD MODEL

The **INDUSTRIAL PU-CHAIR** is designed to provide comfort and safety to the user. It drains static charges safely, continuously and passively from seated personnel when used in conjunction with conductive flooring or floor mats.

- 5 star base made of chromed aluminium with 5 conductive castors
- Safety gas lift
- Gas lift height adjustment 380 - 510 mm
- Synchronous mechanism
- Seat and back rest made of black conductive PU foam
- Easy to clean
- ESD symbol
- Standard self breaking conductive castors
- GS certified



Part Nr.	Colour	Accessories
1700.PU	Black	without armrests
Accessories		
1700.KS.13	Hard, conductive castors (for carpet floors)	
1700.XS.PU	Dissipative armrests with adapter	



INDUSTRIAL PU-CHAIR HIGH MODEL

The **INDUSTRIAL PU-CHAIR** is designed to provide comfort and safety to the user. It drains static charges safely, continuously and passively from seated personnel when used in conjunction with conductive flooring or floor mats.

- Seat height from 540 to 800 mm
- Star base with 5 conductive glides
- chromed foot ring, **continously height adjustable**
- Safety gas lift
- Synchronous mechanism
- Seat and back rest made of black conductive PU foam
- Easy to clean
- ESD symbol
- GS certified



Part Nr.	Colour	Accessories
1710.PU	Black	without armrests
Accessories		
1700.XS.PU	Dissipative armrests with adapter	



Back with
ESD symbol



VINYL CHAIR

The **VINYL CHAIR** is designed to provide comfort and safety to the user. It drains static charges safely, continuously and passively from seated personnel when used in conjunction with conductive flooring or floor mats.

- For clean production areas
- 5 star base made of chromed aluminium with 5 conductive, soft castors
- Safety gas lift
- Gas lift height adjustment 510 - 640 mm
- Seat and back rest made of black conductive vinyl
- Easy to clean
- ESD symbol
- Standard self breaking conductive castors

IEC
EN

Part Nr.	Colour	Accessories
1700.VS	Black	without armrests
Accessories		
1700.KS.13	Hard, conductive castors (for carpet floors)	
1700.XS	Dissipative armrests	



Back with
ESD symbol



VISITOR CHAIR

The **VISITOR CHAIR** is designed to provide comfort and safety to the user. It drains static charges safely, continuously and passively from seated personnel when used in conjunction with conductive flooring or floor mats.

- Quadraped design with conductive glides
- Stackable
- Chromed tubular steel frame
- Seat height: 47 cm
- Seat width: 45 cm
- Seat depth: 45 cm
- Weight: 5,6 kg
- Upholstered with a conductive black fabric
- ESD symbol

IEC
EN

Part Nr.	Colour	Accessories
1700.VC.S	Black	without armrests

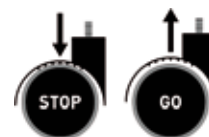




Back with
ESD symbol



1700.KS.6



1700.KS.13

CLEANROOM CHAIR



The CLEANROOM swivel chair has a very good, ergonomic seat comfort due to its molded foam upholstery. It drains static charges safely, continuously and passively from seated personnel when used in conjunction with conductive flooring or floor mats.

- Complies with **cleanroom class 3 acc. to DIN EN ISO 14644-1**
- Closed seat- and backrest cover
- Closed gas lift
- 5 star base made of chromed aluminium with 5 conductive castors
- Gas lift height adjustment 490 - 630 mm
- Height adjustable backrest
- Seat and dynamic backrest mechanism, individually adjustable
- High quality upholstery for perfect sitting comfort
- Hard wearing, conductive black vinyl for seat and backrest
- Conductive plastic back seat shell with ESD symbol
- Standard self breaking conductive castors
- GS certified



Part Nr.	Colour
1730.CR.B	Black

CASTORS / SIT-STOP CASTORS

- Retrofittable

Sit-stop castors:

- Immobilization while seating
- Mobility in the unloaded state
- Fit all chair types in this catalogue

Hard castors:

- Fit all chair types in this catalogue, except high models

Part Nr.	Accessories
1700.KS.6	Sit-stop castors
1700.KS.13	Hard, conductive castors (for carpet floors)



sample application



Measurement in walk-in climatic chamber

BACKREST PROBE

- For resistance to ground measurements of ESD chairs backrests
- Fitted with conductive rubber with silver particles $R < 5 \text{ ohm}$
- Insulated handle
- Connection: 4 mm banana plug socket
- **Each probe can be contacted separately**



Back with ESD symbol

BUSINESS CHAIR

The **BUSINESS CHAIR** provides an exceptional sitting comfort due to its high resilient foam contoured seat. It drains static charges safely, continuously and passively from seated personnel when used in conjunction with conductive flooring or floor mats.

- 5 star base made of chromed aluminium with 5 conductive, soft castors
- Safety gas lift
- Gas lift height adjustment, 450 - 590 mm
- Asynchronous mechanism
- Seat and **dynamic back rest** mechanism individually adjustable
- Upholstered with a conductive black fabric
- Seat back with conductive black fabric and ESD symbol
- Standard self-breaking conductive castors
- GS certified
- Armrests height adjustable (Part. Nr. 1700.XS)

IEC
EN

Part Nr.

7220.900

Backrest probe

Part Nr.

1700.BS.S

Colour

Black

Accessories

with armrests

Accessories

1700.KS.13

Hard, conductive castors
(for carpet floors)

FOOT REST



Adjustable, conductive foot rest.

- Enhances the ergonomic sitting comfort
- Stable metallic construction
- Static dissipative, anti-skid mat
- Colour: black
- Rubber contact pads
- Height and inclination adjustable
- Ground cord with 10 mm snap / 4 mm ring terminal
- Complies with DIN 4556
- GS certified
- Dimensions 450 x 350 mm
- ESD symbol

IEC
EN

Part Nr.	Colour
1740.001	Black

VINYL STOOL



Dissipative stool with height adjustment

- For clean production areas
- 5 star base made of chromed aluminium with 5 conductive, soft castors
- Safety gas lift
- Gas lift height adjustment 500 - 640 mm
- Seat made of black conductive vinyl
- Easy to clean
- ESD symbol
- Standard self breaking conductive castors

IEC
EN

Part Nr.	Colour
1700.VH	Black
1700.KS.13	Hard, conductive castors (for carpet floors)

KICK-STEP STOOL



Conductive, spring loaded metal castors and anti-skid rubber

Dissipative KICK-STEP STOOL

- Robust metal construction with 3 conductive, spring loaded metal castors
- Dissipative floor mat on both standing areas
- Dimensions:
Top standing area – diameter: 28 cm / Height: 400 mm
Bottom standing area – diameter: 33 cm / Height: 200 mm

IEC
EN

Part Nr.	Colour
1750.410	Black

VINYL SIT-STAND STOOL



Dissipative sit-stand stool with height adjustment

- Chrome base with non-slip dissipative knobs
- Colour: black
- Gas lift height adjustment 540 - 800 mm
- Continuously adjustable seat
- Seat made of conductive vinyl
- 360° tilting seat for excellent body contact
- ESD symbol

IEC
EN

Part Nr.	Colour
1700.S.V	Black

PU SIT-STAND STOOL



Dissipative sit-stand stool with height adjustment

- Dissipative and robust construction with antiskid glides, Colour: black
- Locking height adjustment
- Dissipative PU-foam seat
- 16° tilting seat for excellent body contact
- GS certified
- ESD symbol

IEC
EN



Part Nr.	Colour
1700.S	Black

ESD-STANDING AID FLEX WITH CONDUCTIVE FOOT-RING



- Seat height from 510 to 780 mm
- 360° turnable
- Integral foam in colour "black"
- Height adjustment by safety gas spring
- 5-star base made of aluminium with conductive glides
- Conductive foot ring (height adjustable)

IEC
EN



Part Nr.	Colour
1700.S.FLEX	Black





CATALOGUE WEBSHOP



You can find safety shoes and business shoes
in our special catalogue or in our webshop.



link to ePaper

www.warmbier.com



STANDARD SMOCK AM-160



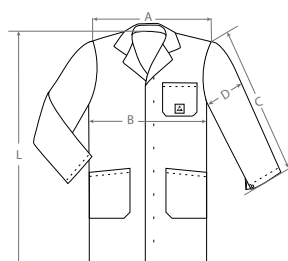
INDIVIDUAL WORKWEAR

Custom versions, design and logos
see page 60

- Standard
- Unisex sizes
- 3/4 design, long sleeves
- Static dissipative fabric made of a mixture of 65% Polyester, 32% Cotton and 3% Carbon coated yarn
- Lightweight, breathable and comfortable
- Easy snap fastening
- Machine washable up to 60 °C
- Weight 156 g/m²
- Conductive in 4 mm grid
- Breast pocket with ESD symbol
- Two side pockets

IEC
EN

Part Nr.	Colour
2610.AM160.*	White
2630.AM160.*	Blue
2640.AM160.*	Grey
*XS – 5XL	



Größe / Size	A [cm]	B [cm]	C [cm]	D [cm]	L [cm]
XS	44	52	60	21	99
S	46	55	61	22	100
M	48	57	62	23	100
L	50	60	63	24	101
XL	52	63	64	25	102
2XL	55	68	65	27	103
3XL	58	72	66	28	103
4XL	61	76	67	30	104
5XL	64	80	67	31	105





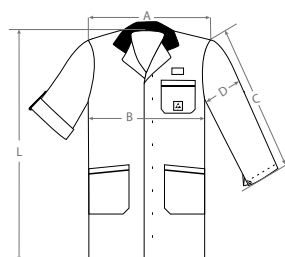
SMOCK AM-160
WITH APLPLICATIONS

- With Applications
- Unisex sizes
- Static dissipative fabric made of a mixture of 65% Polyester, 32% Cotton and 3% Carbon coated yarn
- Lightweight, breathable and comfortable
- Easy snap fastening
- Machine washable up to 60 °C
- Weight 156 g/m²
- Conductive in 4 mm grid
- Breast pocket with ESD symbol
- Two side pockets
- Folded sleeves fixture with a snap

IEC
EN

Part Nr.	Colour
2618.AM160.B*	Blue/Dark blue
2618.AM160.W*	White/Blue
2618.AM160.W.BX*	White/Bordeaux
2618.AM160.G.*	Grey/Black
2618.AM160.G.BX*	Grey/Bordeaux

*XS – 5XL



Größe / Size	A [cm]	B [cm]	C [cm]	D [cm]	L [cm]
XS	44	52	60	21	99
S	46	55	61	22	100
M	48	57	62	23	100
L	50	60	63	24	101
XL	52	63	64	25	102
2XL	55	68	65	27	103
3XL	58	72	66	28	103
4XL	61	76	67	30	104
5XL	64	80	67	31	105



conductive cuffs



earth bonding point



grounding via coilcord



SMOCK AM-160 WITH CONDUCTIVE CUFFS

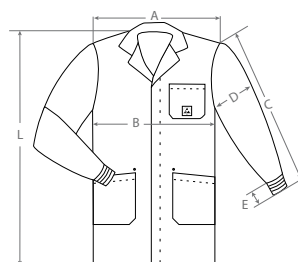


Video

- With conductive cuffs
- 3 mm snap: earth bonding point for personnel grounding with a coil cord
- Unisex sizes
- 3/4 design, long sleeves
- Static dissipative fabric made of a mixture of 65% Polyester, 32% Cotton and 3% Carbon coated yarn
- Lightweight, breathable and comfortable
- Easy snap fastening
- Machine washable up to 60 °C
- Weight 156 g/m²
- Conductive in 4 mm grid
- Breast pocket with ESD symbol
- Two side pockets

IEC
EN

Part Nr.	Colour
2615.AM160.C.*	White
2635.AM160.C.*	Blue
2645.AM160.C.*	Grey
*XS – 5XL	



Größe / Size	A [cm]	B [cm]	C [cm]	D [cm]	L [cm]
XS	44	52	65	21	99
S	46	55	66	22	100
M	48	57	67	23	100
L	50	60	68	24	101
XL	52	63	69	25	102
2XL	55	68	70	27	103
3XL	58	72	71	28	103
4XL	61	76	72	30	104
5XL	64	80	72	31	105



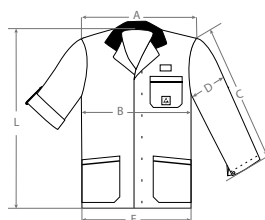
SHORT SMOCK KL-160

- With Applications
- Unisex sizes
- 1/2 design, long sleeves
- Static dissipative fabric made of a mixture of 65% Polyester, 32% Cotton and 3% Carbon coated yarn
- Lightweight, breathable and comfortable
- Easy snap fastening
- Machine washable up to 60 °C
- Weight 156 g/m²
- Conductive in 4 mm grid
- Breast pocket with ESD symbol
- Two side pockets
- Folded sleeves fixture with a snap

IEC
EN

Part Nr.	Colour
2660.KL160.B*	Blue/Dark blue
2660.KL160.W*	White/Blue
2660.KL160.W.BX*	White/Bordeaux
2660.KL160.G.*	Grey/Black
2660.KL160.G.BX.*	Grey/Bordeaux

*XS – 5XL



Größe / Size	A [cm]	B [cm]	C [cm]	D [cm]	E [cm]	L [cm]
XS	44	53	59	20	54	79
S	46	55	60	22	57	80
M	48	57	60	23	60	81
L	50	60	61	24	63	82
XL	52	63	62	25	66	82
2XL	55	68	63	27	69	84
3XL	58	72	64	28	72	85
4XL	61	76	65	30	75	86
5XL	64	80	66	31	78	87



**SMOCK AM-120****SMOCK AM-110
EXTRA LIGHT**

- Unisex sizes
- For clean production areas
- Static dissipative fabric made of a mixture of 98% Polyester 2% Carbon coated yarn
- Lightweight and comfortable
- Easy snap fastening
- Machine washable up to 40 °C
- Weight 120 g/m²
- Conductive 4 mm grid
- Breast pocket with ESD symbol

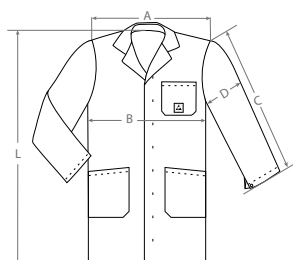
**IEC
EN**

Part Nr.	Colour
8710.AM120.*	White
*S – 3XL	

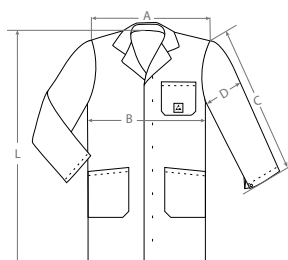
- UNISEX sizes
- 3/4 design, long sleeves
- Static dissipative fabric made of a mixture of 50% Polyester, 47% Cotton and 3% Carbon coated yarn
- Lightweight, breathable and comfortable
- Machine washable up to 60 °C
- Weight 110 g/m²
- Conductive in 4 mm grid
- Breast pocket with ESD symbol
- Two side pockets
- Easy snap fastening

**IEC
EN**

Part Nr.	Colour
2610.AM110.*	White
*S – 5XL	



Größe / Size	A [cm]	B [cm]	C [cm]	D [cm]	L [cm]
S	46	55	61	22	100
M	48	57	62	23	100
L	50	60	63	24	101
XL	52	63	64	25	102
2XL	55	68	65	27	103
3XL	58	72	66	28	103



Größe / Size	A [cm]	B [cm]	C [cm]	D [cm]	L [cm]
S	46	55	61	22	100
M	48	57	62	23	100
L	50	60	63	24	101
XL	52	63	64	25	102
2XL	55	68	65	27	103
3XL	58	72	66	28	103
4XL	61	76	67	30	104
5XL	64	80	67	31	105

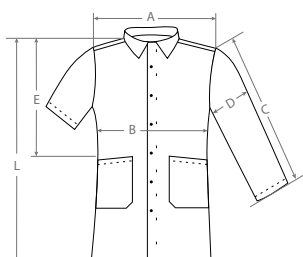


DISPOSABLE SMOCK NON-WOVEN

- UNISEX-sizes
- 3/4 design long sleeves
- Lightweight and soft material
- For clean production areas
- Dissipative material
- Breathable
- Two side pockets
- Velcro fastening

IEC
EN

Part Nr.	Colour	Qty.
2685.DS.*	Grey	10 pcs
*M, XL, 3XL		



Größe / Size	A [cm]	B [cm]	C [cm]	D [cm]	E [cm]	L [cm]
M	54	62	60	23	51	97
XL	58	68	62	24	52	105
3XL	64	77	64	25	53	113

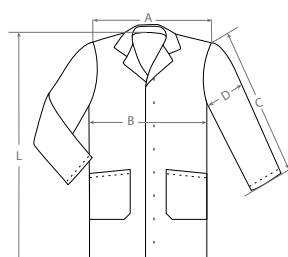


DISPOSABLE SMOCK PE

- UNISEX-sizes
- 3/4 design long sleeves
- Very rugged, lightweight and soft material
- Snap fastening
- For clean production areas
- Dissipative material
- Prevents contamination of products with particles and fibers
- Two side pockets

IEC
EN

Part Nr.	Colour	Qty.
2685.EW.*	White	
*M – 2XL		



Größe / Size	B [cm]	L [cm]
M	92-100	164-172
L	100-108	172-180
XL	108-116	180-188
2XL	116-124	188-196

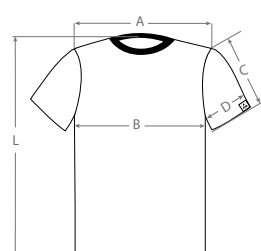


T-SHIRTS

- UNISEX sizes
- Static dissipative fabric for use in ESD protected areas
(**White/Blue/black:** 97% Cotton, 3% Carbon coated yarn)
(**Grey:** 88% Cotton, 9% Polyester, 3% Carbon coated yarn)
- Lightweight, breathable and comfortable
- Machine washable up to 40°C
- Weight: **Blue/Black/Grey:** 150 g/m²
White: 160 g/m²
- Sleeve with ESD symbol

IEC
EN

Part Nr.	Colour
2653.T.*	White
2655.T.*	Grey
2657.T.*	Blue
2659.T.*	Black
*XS – 5XL	



Größe / Size	A [cm]	B [cm]	C [cm]	D [cm]	L [cm]
XS	41	51	21	21	66
S	43	53	21	21	66
M	46	55	22	22	68
L	48	58	22	23	70
XL	50	62	24	25	71
2XL	52	66	26	26	72
3XL	54	70	26	28	73
4XL	56	74	26	29	75
5XL	58	78	27	30	77

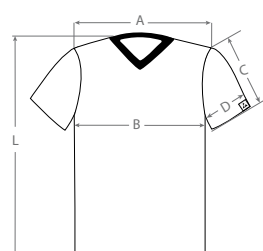


T-SHIRTS V-NECK

- UNISEX sizes
- Static dissipative fabric for use in ESD protected areas
(**White/Blue/black:** 97% Cotton, 3% Carbon coated yarn)
(**Grey:** 88% Cotton, 9% Polyester, 3% Carbon coated yarn)
- Lightweight, breathable and comfortable
- Machine washable up to 40°C
- Weight: **Blue/Black/Grey:** 150 g/m²
White: 160 g/m²
- Sleeve with ESD symbol

**IEC
EN**

Part Nr.	Colour
2654.TV.*	White
2656.TV.*	Grey
2658.TV.*	Blue
2660.TV.*	Black
*XS – 5XL	



Größe / Size	A [cm]	B [cm]	C [cm]	D [cm]	L [cm]
XS	41	51	21	21	66
S	43	53	21	21	66
M	46	55	22	22	68
L	48	58	22	23	70
XL	50	62	24	25	71
2XL	52	66	26	26	72
3XL	54	70	26	28	73
4XL	56	74	26	29	75
5XL	58	78	27	30	77



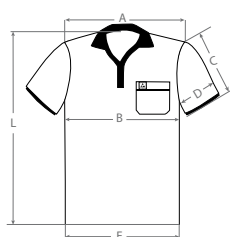


POLOSHIRTS

- UNISEX sizes
- 1/2 design, short sleeves
- Static dissipative fabric
(**Blue/black:** 47% Polyester, 50% Cotton, 3% Carbon coated yarn)
(**White:** 48% Polyester, 50% Cotton, 2% Carbon coated yarn)
(**Grey:** 8% Polyester, 89% Cotton, 3% Carbon coated yarn)
- Lightweight, breathable and comfortable
- Machine washable up to 40°C
- Weight: **Blue/Black/Grey:** 210 g/m²
White: 200 g/m²
- Breast pocket with ESD symbol

IEC
EN

Part Nr.	Colour
2623.P.*	White
2625.P.*	Grey
2627.P.*	Blue
2629.P.*	Black
*XS – 5XL	



Größe / Size	A [cm]	B [cm]	C [cm]	D [cm]	E [cm]	L [cm]
XS	40	50	22	20	45	75
S	43	53	23	21	48	75
M	46	55	24	21	51	76
L	48	59	25	22	55	76
XL	50	63	26	23	59	78
2XL	52	67	26	24	63	78
3XL	54	71	27	26	67	81
4XL	56	75	28	28	71	82
5XL	58	79	29	30	75	83

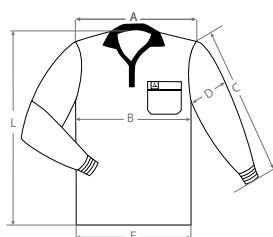


POLOSHIRTS LONG SLEEVE WITH CONDUCTIVE CUFFS

- Long sleeve version with conductive cuffs
- UNISEX sizes
- 1/2 design, long sleeves
- Static dissipative fabric (47% Polyester, 50% Cotton, 3% Carbon coated yarn)
- Lightweight, breathable and comfortable
- Machine washable up to 40°C
- Weight 210 g/m²
- Breast pocket with ESD symbol

IEC
EN

Part Nr.	Colour	Size
2647.P.*	Blue	*XS – 5 XL
2649.P.*	Black	*XS – 4 XL



Größe / Size	A [cm]	B [cm]	C [cm]	D [cm]	E [cm]	L [cm]
XS	40	50	65	20	45	75
S	43	53	66	21	48	75
M	46	55	67	21	51	76
L	48	59	68	22	55	76
XL	50	63	68	23	59	78
2XL	52	67	69	24	63	78
3XL	54	71	70	26	67	81
4XL	56	75	70	28	71	82
5XL	58	79	71	30	75	83

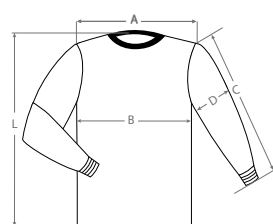


T-SHIRTS LONG SLEEVE WITH CONDUCTIVE CUFFS

- UNISEX sizes
- Static dissipative fabric for use in ESD protected areas (Blue/black: 97% Cotton, 3% Carbon coated yarn) (Grey: 88% Cotton, 9% Polyester, 3% Carbon coated yarn)
- With conductive cuffs
- Lightweight, breathable and comfortable
- Machine washable up to 40°C
- Weight 150 g/m²
- Sleeve with ESD symbol

IEC
EN

Part Nr.	Colour
2645.T.*	Grey
2647.T.*	Blue
2649.T.*	Black
*XS – 3XL	



Größe / Size	A [cm]	B [cm]	C [cm]	D [cm]	L [cm]
XS	41	51	65	21	66
S	43	53	66	21	66
M	46	55	67	22	68
L	48	58	68	23	70
XL	50	62	68	25	71
2XL	52	66	69	26	72
3XL	54	70	70	28	73



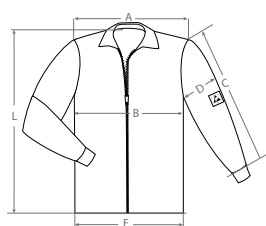


SWEAT-JACKET
WITH CONDUCTIVE CUFFS

- 1/2 design, long sleeves
- Static dissipative fabric made of a mixture of 43% Polyester, 50% Cotton and 7% Carbon coated yarn
- **With conductive cuffs**
- Lightweight, breathable and comfortable
- Unisex sizes
- Machine washable up to 40 °C
- Weight 270 g/m²
- ESD symbol on one sleeve

IEC
EN

Part Nr.	Colour
2671.SJ.B.*	Blue
*XS – 5XL	



Größe / Size	A [cm]	B [cm]	C [cm]	D [cm]	E [cm]	L [cm]
XS	48	54	56	24	40	69
S	50	56	59	24	42	70
M	51	58	59	26	44	71
L	52	60	60	26	46	72
XL	53	62	60	27	48	75
2XL	54	64	61	27	50	76
3XL	55	66	61	28	52	77
4XL	56	68	62	28	54	78
5XL	57	70	62	29	56	79

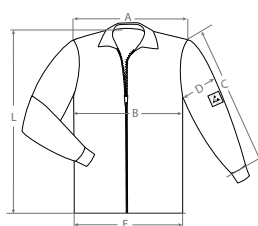


SWEAT-JACKET
WITH CONDUCTIVE CUFFS

- UNISEX sizes
- 1/2 design, long sleeves
- With zip through the collar
- Static dissipative fabric made of a mixture of 43% Polyester, 50% Cotton and 7% Carbon coated yarn
- **With conductive cuffs**
- Lightweight, breathable and comfortable
- Unisex sizes
- Machine washable up to 40 °C
- Weight 290 g/m²
- ESD symbol on one sleeve

IEC
EN

Part Nr.	Colour
2670.SJ.BL.*	Black
*XS – 5XL	



Größe / Size	A [cm]	B [cm]	C [cm]	D [cm]	E [cm]	L [cm]
XS	48	54	56	24	40	69
S	50	56	59	24	42	70
M	51	58	59	26	44	71
L	52	60	60	26	46	72
XL	53	62	60	27	48	75
2XL	54	64	61	27	50	76
3XL	55	66	61	28	52	77
4XL	56	68	62	28	54	78
5XL	57	70	62	29	56	79

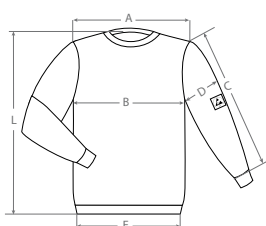


SWEATSHIRT

- 1/2 design, long sleeves
- Static dissipative fabric made of a mixture of 43% Polyester, 50% Cotton and 7% Carbon coated yarn
- With conductive cuffs
- Lightweight, breathable and comfortable
- Unisex sizes
- Machine washable up to 40 °C
- Weight 270 g/m²
- ESD symbol on one sleeve

IEC
EN

Part Nr.	Colour
2671.SS.B.*	Blue
*S – 3XL	



Größe / Size	A [cm]	B [cm]	C [cm]	D [cm]	E [cm]	L [cm]
XS	48	52	56	24	40	69
S	48	54	59	25	42	70
M	49	56	59	26	44	71
L	50	58	60	26	46	72
XL	51	60	60	27	48	73
2XL	52	62	61	27	50	74
3XL	53	64	61	28	52	75



INDIVIDUAL WORKWEAR

**CUSTOM VERSIONS, DESIGN AND LOGOS
AVAILABLE ON REQUEST!**



Print



Embroidered



Patch

IDP-STAT® BADGE HOLDERS



- Clip holder
- Credit card size
- Dissipative IDP-STAT® PVC
- Marked with ESD symbol

Part Nr.	Colour	Qty.
5221.3.IDP	Transparent	10 pcs

BADGE HOLDERS



- Clip holder
- Credit card size
- Permanent conductive, carbon loaded material
- Horizontal and vertical use

Part Nr.	Colour
5221.2	Black

REUSABLE CAP



- Dissipative reusable cap
- Made of static dissipative polyester fabric

Part Nr.	Colour	Qty.
8761.H.B	White	10 pcs

DISPOSABLE CAP



- Disposable Cap
- Material: Non-woven, dissipative
- Breathable

Part Nr.	Colour	Qty.
8760.DC	White	100 pcs

ESD GLOVES



- Non-allergenic polyester fabric
- Static dissipative

Part Nr.	Colour	Qty.
8745.P3.*	White	10 pairs
* S, M, L, XL		

ESD GLOVES



- Non-allergenic polyester fabric
- Static dissipative
- Palm area with PVC-nubs
- Size, colour coded cuffs

Part Nr.	Colour	Qty.
8745.PVCB6.*	White	10 pairs
* S, M, L, XL		

ESD GLOVES



- Non-allergenic polyester fabric
- Static dissipative
- Palm area with PVC-nubs

Part Nr.	Colour	Qty.
8745.0401.*	White	10 pairs
* XS, S, M, L, XL		

ESD GLOVES



- Nylon-polyester mixture
- Static dissipative
- Size, colour coded cuffs

Part Nr.	Colour	Qty.
8745.CG.*	White	10 pairs
* S, M, L		

ESD GLOVES



- Nylon-polyester mixture
- Static dissipative
- Anti-slip coating on finger tips
- Size, colour coded cuffs

Part Nr.	Colour	Qty.
8745.APU.*	White	10 pairs
* S, M, L, XL		

ESD GLOVES



- Nylon-polyester mixture
- Static dissipative
- Size, colour coded cuffs

Part Nr.	Colour	Qty.
8745.AX.*	White	10 pairs
* S, M, L, XL		

ESD GLOVES



- Leather gloves with Polyester back
- Static dissipative
- Palm interior

Part Nr.	Colour	Qty.
8745.PS500.*	White	1 pair
* S, M, L, XL, 2XL		

ESD GLOVES



- Nylon-polyester mixture
- Static dissipative
- Palm area with anti-slip coating
- Size, colour coded cuffs

Part Nr.	Colour	Qty.
8745.APU.K.*	White	10 pairs
* S, M, L, XL		

ESD GLOVES



- Nylon-polyester mixture
- Static dissipative
- Palm area with anti-slip coating and cut protection
- Size, colour coded cuffs
- Cut protection level 2 according to EN 388
- Blade cut resistance according to:
EN 388:2016 – Level 2
EN ISO 13997 – Level B



Part Nr.	Colour	Qty.
8745.APU.CR*	Grey	1 pair
* S, M, L, XL, 2XL		

ESD FINGER COTS



- Latex dissipative finger coats
- Compatible for cleanroom class M 1.000
- Colour: black
- Powder free

Part Nr.	Colour	Qty.
8750.B.*	Black	1.440 pcs
* S, M, L, XL		

GLOVE TEST



Metriso® B530



Application example:
Resistance to ground
measurement of gloves
and finger cots.

7220.15



Application example:
Decay time measurement
of gloves and finger cots.

7100.EFM51.CPS

For resistance to ground measurement of gloves and fingercots.

- Dimensions: 130 x 80 x 40 mm (H x B x T)
- Weight: 460 g

Part Nr.	
7220.15	Glove probe
7100.EFM51.CPS	Electrostatic Field Meter EFM®51 with Charged Plate Set

HEEL GROUNDER



- For normal heel shoes
- Durable
- **Velcro heel grounder**
- 1 Mohm safety resistor

IEC
EN

Part Nr.	Colour
2560.890	Black/Blue
2560.895	Black/Blue/Red

HEEL GROUNDER



- For normal heel shoes
- **Durable quick release heel grounder**
- 1 Mohm safety resistor

IEC
EN

Part Nr.	Colour
2560.890.2.S	Black/Blue
2560.895.2.R	Black/Blue/Red

HEEL GROUNDER



- For normal heel shoes
- **Durable quick release heel grounder**
- 1 MOhm safety resistor
- Red, elastic heel band
- Replaceable connecting strap
- Colour: Black/Blue/Red

IEC
EN

Part Nr.	Model	Length	Qty.
2560.890.R	Heel grounder with replaceable connecting strap		
2560.890.R.47	Connecting strap	47 cm	100 pcs
2560.890.R.100	Connecting strap for boots	100 cm	25 pcs

WOMEN'S TOE GROUNDER



- For high heel shoes
- Durable
- 1 Mohm safety resistor

IEC
EN

Part Nr.	Colour
2560.891	Black

WOMEN'S TOE GROUNDER



- For high heel shoes
- Durable
- **Velcro toe grounder**
- 1 Mohm safety resistor

IEC
EN

Part Nr.	Colour
2560.891.2.S	Blue

DISPOSABLE HEEL GROUNDER

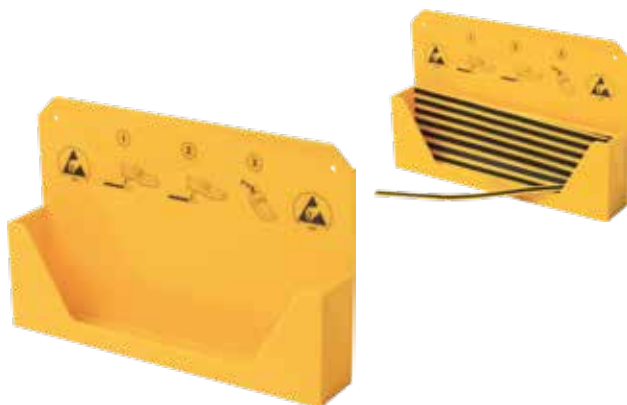


- For normal heel shoes
- Conductive material strips, self-adhesive

IEC
EN

Part Nr.	Colour	Qty.
2560.894	Black/Yellow	100 pcs

WALL MOUNTED CONTAINER



- Plastic wall mounted container
- Colour: yellow with black print
- Supplied without "disposable heelgrounders"

Part Nr.	Measurement
2560.894.H.N	315 x 55 x 200 mm (L x W x H)

REUSABLE OVERSHOE



- Dissipative reusable overshoe
- Made of static dissipative polyester fabric, colour white
- Disposable carbon coated connecting strap

IEC
EN

Part Nr.	Qty.
8781.P.B.*	5 pairs incl. strap
8781.P.40 (strap)	100 pcs
*S (35-39), L (40-43), XL (44-48)	

REUSABLE OVERSHOE

NEW



- Dissipative reusable overshoe for normal street shoes
- Made of static dissipative polyester fabric
- Colour: white
- Disposable carbon coated connection strap
- Walking sole: **non-slip** dissipative rubber material

IEC
EN

Part Nr.	Qty.
8781.P.CR.*	1 pair incl. strap
8781.P.40 (strap)	100 pcs
*S (35–39), L (40–43), XL (44–48)	

REUSABLE OVERSHOE



- Dissipative disposable overshoe
- Made of non-woven material
- Includes conductive, carbon coated connecting strap
- Colour: blue

IEC
EN

Part Nr.	Sizes	Qty.
8782.D.O	35–44	100 pcs
8782.D.O.XL	45–50	100 pcs

ESD-SOCKS



- Snug fit and comfortable ESD socks
- Seamless toe area
- Conductive yarn throughout the socks
- 60% Cotton, 37% Polyester, 3% silver threads
- With ESD Logo

S = 36–38, M = 39/40, L = 41/42, XL = 43–45, 2XL = 46–48

Part Nr.	Colour
2720.8140.*	Black
* S, M, L, XL, 2XL	

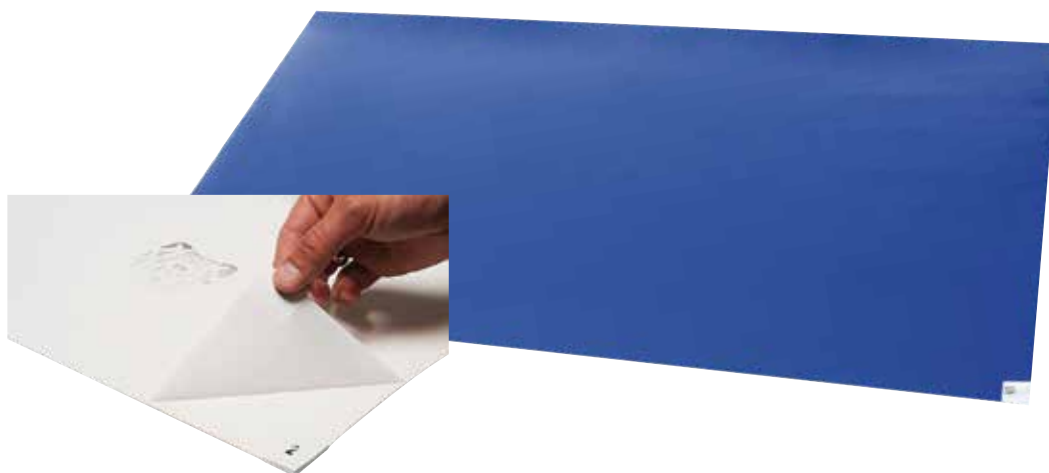
ESD-SOCKS



- Snug fit and comfortable ESD socks
- Conductive yarn in toe und heel area
- 90% Polyester, 7% Spandex, 3% silver threads
- With ESD Logo

S = 36–38, M = 39/40, L = 41/42, XL = 43–45, 2XL = 46–48

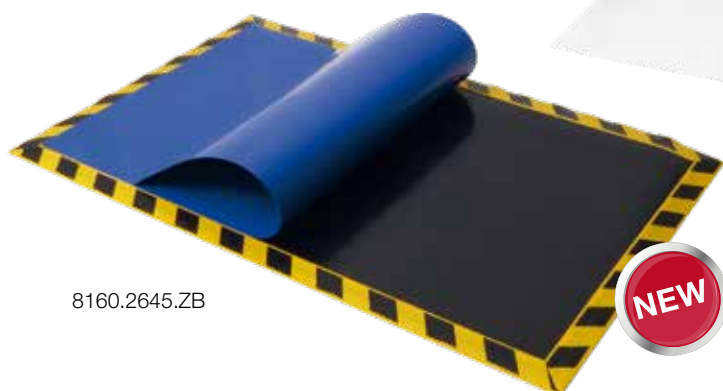
Part Nr.	Colour
2720.4260.*	White/Grey
* S, M, L, XL, 2XL	



application examples



application examples



8160.2645.ZB

NEW

**RECOMMENDATION:**

To fix the tacky mats we recommend the „adhesive tape DT100“, on page 15.



- Tacky mats for clean rooms
- 30 Polyurethane layers per mat
- Pressure sensitive tacky surface
- Removes dirt and particles from footwear and castors

Part Nr.	Colour	Dimension	Qty.
8160.2645.B	Blue	660 x 1140 mm	4 mats
8160.2645.W	White	660 x 1140 mm	4 mats
8160.2645.ZB	Non-slip base for tacky mats		

WRIST STRAPS

69



Adjustable, elastic, with silver impregnated threads interwoven on the inside, hypoallergenic

IEC
EN

Part Nr.	Colour	Connection
2050.750.3	Light blue	3 mm snap
2050.750.7	Light blue	7 mm snap
2050.750.10	Light blue	10 mm snap
2051.750.3	Dark blue	3 mm snap
2051.750.10	Dark blue	10 mm snap

STAINLESS STEEL BAND

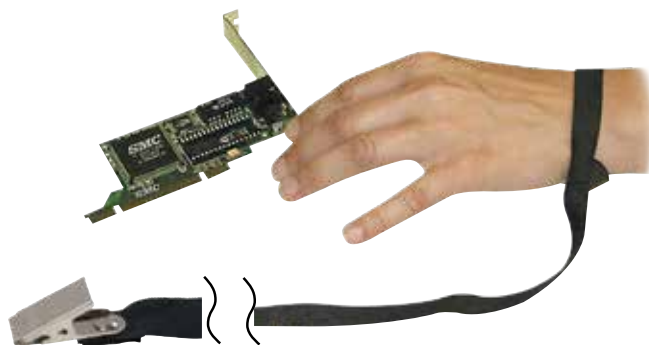


Expandable, adjustable band with an insulated shock resistant exterior, protects the wearer from electrical shocks, hypoallergenic

IEC
EN

Part Nr.	Colour	Connection	Size
2052.750.5.3	Black	3 mm snap	adjustable
2052.750.5.10	Black	10 mm snap	adjustable

DISPOSABLE WRIST STRAP



Dissipative Nylon wrist strap, ideal for visitors and one time use applications.

- Sizes: length 1,5 m, width 12,5 mm
- Black wrist strap with a looped end
- Metal clip for ground connection
- Do not use with voltages above 250 V

IEC
EN

Part Nr.	Qty.
2060.5410.K	1 box = 100 pieces



COIL CORDS



- Lightweight 2,4 m coil cords
- 10 mm snaps

IEC
EN

Part Nr.	Colour	Connection
2 x 1 Mohm resistors, length: 2,4 m		
2100.752.3.10	Light blue	3/10 mm snap
2100.752.7.10	Light blue	7/10 mm snap
2100.752.10.10	Light blue	10/10 mm snap
2101.752.3.10	Black	3/10 mm snap
2101.752.10.10	Black	10/10 mm snap
2 x 1 Mohm resistors, length: 3,6 m		
2101.752.3.10.1	Black	3/10 mm snap
1 Mohm resistors, length: 2,4 m		
2100.751.3	Light blue	3 mm snap/ banana plug
2100.751.7	Light blue	7 mm snap/ banana plug
2100.751.10	Light blue	10 mm snap/ banana plug
2101.751.3	Black	3 mm snap/ banana plug
2101.751.10	Black	10 mm snap/ banana plug

MINI COIL CORDS



- Ultralight weight
- 2,4 m length

IEC
EN

Part Nr.	Colour	Connection
2 x 1 Mohm resistors		
2101.780.3.10 *	Black	3/10 mm snap
2101.780.3	Black	3 mm snap/ banana plug
1 Mohm resistors		
2101.751.3.2	Black	3 mm snap/angled 4 mm socket for 3M system



7100.181



7100.181.C



7100.181.H



7100.181.K.M

7100.181.K

application example

Continuous wrist strap monitor

Test method: Impedance capacitive measurement
 Test range: 1 MOhm ... (100 pF + 2 MOhm) OK
 HI-Fail > 5 MOhm
 LO-Fail < 400 kohm
 Signal: Audible and visible (7100.181)
 + visible and via relay output (7100.181.K)



Video

Part Nr.	
7100.181	Safety Pips with a 10 mm snap (battery operated) incl. calibration certificate
7100.181.K	Safety Pips with relay output, 10 mm snap Operation: 230 VAC power supply incl. calibration certificate
7100.181.C	Calibration Unit for Safety Pips / Safety Pips K incl. calibration certificate
7100.181.103	Power supply 230V AC for 7100.181 retrofit
7100.181.H	Mounting bracket for Safety Pips
7100.181.K.M	Additional module with 3 LED's (two colours: red and green), for Safety Pips K with about 2 m connecting cable

GROUNDING CORD



- For floor and table mats with 1 Mohm safety resistor

Part Nr.	Length	Connection
2250.758.1	0,75 m	10 mm snap/4 mm ring terminal
2250.758	1,5 m	10 mm snap/4 mm ring terminal
2250.758.2	3,0 m	10 mm snap/4 mm ring terminal
2250.756	1,5 m	10 mm snap/banana plug
2250.765	3,0 m	10 mm snap/banana plug
2250.762	1,5 m	10 mm snap/10 mm snap
2250.762.1	1,5 m	10 mm snap/10 mm snap without resistor

GROUNDING CORD



- Grounding Cord with protective cap
- 1 Mohm safety resistor

Part Nr.	Length	Connection
2250.790	1,8 m	10 mm snap/4 mm ring terminal for table mats
2250.790.2	4,5 m	10 mm snap/4 mm ring terminal for floor mats

GROUNDING CORD



Stackable banana plug socket/10 mm, 1 Mohm resistorized snap, a 3 m cord and a banana plug.

Part Nr.	Length	Connection
2250.757	3 m	10 mm encapsulated snap / banana plug socket

CENTRAL GROUNDING BOX



- Grounding box with 7 screws
- Suitable for 4 mm ring terminal connection
- Reliable grounding cords connection to ESD ground or protective ground
- Removable protection lid
- ESD symbol

Part Nr.	
2200.B	Central grounding box



Earth Bonding Point (EBP) includes 2,0 m earthing cable with a 4 mm ring terminal (1 Mohm resistor for every input).

Part Nr.	
2200.121.10	2 x 10 mm snaps and 1 x 4 mm; banana plug socket
2200.121.10.1	With 3 x 10 mm snaps
2200.121.10.2	With 1 x 10 mm snap and 2 x 4 mm banana plug sockets
2200.W.3	Yellow, right angle with 3 x 10 mm snaps
2200.121.10.13	2 x plug socket for 3M system; 1 x 10 mm snap
2200.W.5	1 x 10 mm snap; 2 x 4 mm banana plug socket

GROUNDING PLUG



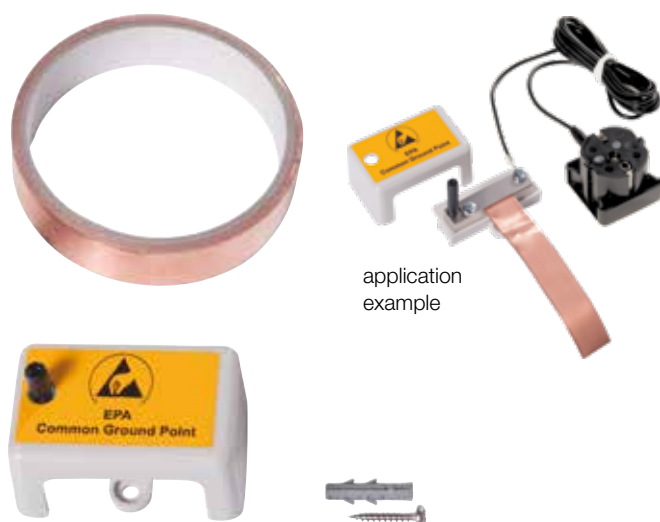
Used for direct and easy mat grounding

Part Nr.	
2200.110	Without cable, banana plug socket, without resistor
2200.111	With 2,4 m coil cord, 1 Mohm safety resistor and a 10 mm snap
2200.113	2 m flat cable, 4 mm ring terminal, without resistor
2201.230	Without cable, 1 MOhm resistor; 3 x 10 mm snap
2201.245	Without cable, 1 MOhm resistor; 2 x 10 mm snap, 1 x screwed connection for 4 mm ring terminal
2201.258	Without cable, 1 MOhm resistor; 1 x 10 mm snap, 2 x 4 mm banana plug socket



Part Nr.	
2280.774.10	Big alligator clip, with a banana plug socket, and a 10 mm snap
2287.10.4	Encapsulated banana plug adapter, includes 10 mm / 4 mm snaps
2287.10.10	10 mm snap 10 mm (stackable snap)
2280.779.10	Tool for 10 mm snap
2280.771	10 mm snap fastener
2280.778	Adapter from a 4 mm banana plug socket to a 10 mm snap fastener
2280.772.12	Top part of 10 mm snap for installation on metal surfaces (without screw)
2280.800	Hollow Punch for punching holes in table mats or floor mats Forged iron with hardened cutting edges; Aluminium base plate (80 x 80 x 10 mm)
2280.778.6.7	10 mm snap adapter, Hexagon height 3,5 mm, Spanner gap 12 mm, Tread M6 x 16, Total length: 23 mm
2280.778.6.11	10 mm snap adapter, Hexagon height 7 mm, Spanner gap 12 mm, Tread M6 x 16, Total length: 26,5 mm

CENTRAL GROUNDING BOX FOR FLOORING SYSTEMS



2200.113,
page 77

Grounding box for connecting ESD flooring material

- Grounding box with 2 screws
- 2 m self-adhesive copper band on roll
- Protection lid
- Banana plug socket
- ESD symbol

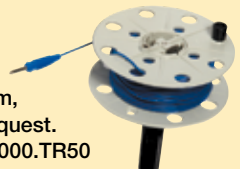
Part Nr.	
2200.BFE	Grounding box with dowel and screw



video



Cable reel, 50 m,
available on request.
Part Nr. 7100.2000.TR50



Metriso® B530 - test kit includes: digital high resistance tester, 2 probes model 870 with extension, a hand-held probe with connecting cable, user's instructions in German, English and French, calibration certificate, conductive carrying case fitted with dissipative pink foam.

- Suitable for resistance point-to-point and resistance to ground measurements
- Test voltage / Test current:
Ohmic range: $1 \text{ mA} \leq I \leq 1,3 \text{ mA}$
High ohmic range: DC 10 volts, 100 volts and 500 volts
- Test range:
Low ohmic range: 1 Ohm to 9,99 KOhm
High ohmic range: 1 kOhm to 199 GOhm
- Operation: Battery operated
- Probes: 2 x Model 870 (weight: 2,27 kg / Ø 63,5 mm) with conductive rubber (grey) and extension, 1 x hand-held probe Model 45

complies with IEC 61340-4-1, IEC 61340-2-3, IEC 61340-4-5

Part Nr.

7100.B530.MK	Metriso® B530 Basic Test-Kit
7100.B530.G	Metriso® B530 Basic, instrument only

THERMO-HYGROMETER TF-530



Digital thermo-hygrometer, ideal for fast and precise measurement of temperature and humidity.

- MAX/MIN/HOLD-function
- Backlight
- Automatic shutdown
- Tripod thread 1/4"
- Measuring range:
Temperature: $-30 \dots +70^\circ\text{C}$
Humidity: 0 ... 100%
- Dimension: 165 x 52 x 35 mm (L x W x H)
- Weight: 115g (without Battery)

Includes:
Meter, 9 V-Battery, Leather Case, Manual (german/english)

Part Nr.

7100.TF530	Digital Thermo-Hygrometer TF-530
-------------------	----------------------------------





Clip-on humidity and temperature sensor



Video



Barcode scanner

Metriso® 3000 - test kit includes: digital high resistance tester, temperature and relative humidity sensor, USB port, PC software ETC for Windows®, 2 probes, a hand-held probe with connecting cable, user's instructions in German, English and French, calibration certificate, conductive carrying case fitted with dissipative pink foam.

- Suitable for resistance point-to-point and resistance to ground measurements
- Integrated data logger with USB communication port for data transmission (50.000 test values). The supplied Report Generating Software ETC allows to generate a complete test report
- Clip-on humidity and temperature sensor
- A barcode scanner can be used in order to record test points before testing

- Test voltage / Test current: $1 \text{ mA} \leq I \leq 1,3 \text{ mA}$
- Test range:
 - High ohmic range: DC 10 volts, 100 volts and 500 volts
 - low ohmic range: 1 Ohm to 9,99 kOhm
 - High ohmic range: 1 kOhm to 1,2 TOhm
- Operation: Battery operated
- Probes:
 - 2 x Model 850 (weight: 2,27 kg / Ø 63,5 mm)
 - 1 x hand-held probe Model 45

complies with
IEC 61340-4-1, IEC 61340-2-3, IEC 61340-4-5

Part Nr.

7100.3000.MK	Metriso® 3000 Test Kit, menu language German/English/French/Spanish
7100.3000.MK.870	Metriso® 3000 Test Kit with Probes 870, menu language German/English/French/Spanish
7100.3000.G	Metriso® 3000 Test Instrument only, menu language German/English/French/Spanish

Accessories

7100.2000.TR50	50 m extension cable for floor measurements
7100.2000.ML	Replacement set of connecting cables (com/shield, +pole)
7100.3000.SC.2D	Barcode-Scanner for 2D and 1D Codes
7100.3000.Z502H	Rechargeable battery pack 8 x NiMH
7100.3000.Z502R	Charger unit for rechargeable battery

In the ETC software master data and information can be added to the test object, before performing the testing of ESD control elements.

Wolfgang Warmbier
Systeme gegen Elektrostatische Entladung

Report no.
20170731071028

Test report

Master data			
Customer no.	55733	Date of measureme	31.07.2017
Customer	Fa. Mustermann Elektronik AG Unter Glassäulen 21 78247 Hilsingen	Order no.	20170731071028
Representative	Max Meier	Contractor	Warmbier
		Tester	Pfeife

Test objects			
Test object location	ESD areas	Object description	different buildings
		Part number	
		Charge	
		Number of units	2

Testing			
Beginning of testing	31.07.2017	End of testing	31.07.2017
Performed in accordance with	IEC 61340-2-3	Reason for testing	Verification Qualification
Instruments used	Metriso 3000 T/F Sensor Z550B Wolfgang Warmbier, Metriso 3000, XE1556/01, 11.00		

Signature			
Representative		Tester	
Hilsingen	31.07.2017	Hilsingen	31.07.2017
Location	Date	Location	Date
	Signature		Signature

The software provides the option of adding a corporate logo. A protocol number is automatically generated.

Measurements					
Building			T	H	
B0000002 Building_A34			24.1 °C	60.3 %	
E0000005 ESD Chair 23					
Measurement type	Control item	MP	Measured value	Limit values	Passed
RESO	chair Rg	MP_001	429 MOhm 98.7 V	< 1 GOhm	Yes
RESO	chair Rg	MP_002	245 MOhm 98.7 V	< 1 GOhm	Yes
E0000007 ESD Chair 54					
Measurement type	Control item	MP	Measured value	Limit values	Passed
RESO	chair Rg	MP_001	5.3 GOhm 98.7 V	< 1 GOhm	No
Comment	clean castors				
RESO	chair Rg	MP_002	3.39 GOhm 98.7 V	< 1 GOhm	No
Comment	clean castors				
E0000008 ESD smock AM160					
Measurement type	Control item	MP	Measured value	Limit values	Passed
RESO	garment Rpp	MP_001	86.2 MOhm 98.7 V	< 100 GOhm	Yes
RESO	garment Rpp	MP_002	77.1 MOhm 98.7 V	< 100 GOhm	Yes

In the test report the ESD control element, the measuring point, the measured value and the indicated test voltage are displayed.

By selecting the control element, the limit value is transferred automatically to the report and the measurement status is displayed.

Report template: Metriso 3000 (protocol_template_GMC-I_Metriso_3000_en.qrt)

Master data	Test objects	Testing	Measurements	Comments	Reporting
Performed in accordance with		Reason for testing			
☐ IEC 61340-4-1		☒ Verification			
☒ IEC 61340-2-3		☒ Qualification			
☐ IEC 61340-4-5					
☐ IEC 61340-4-9					
☐ Other					
Instruments used		Further data			
☒ Metriso 3000		Beginning of testing	31.07.2017		
☒ T/F Sensor Z550B		End of testing	31.07.2017		
☐ Other					
☒ Wolfgang Warmbier, Metriso 3000, XE1556/01, 11.00					

Preset ESD standards can be selected in the protocol assistant. The user can define, whether the measurement is for verification or qualification.

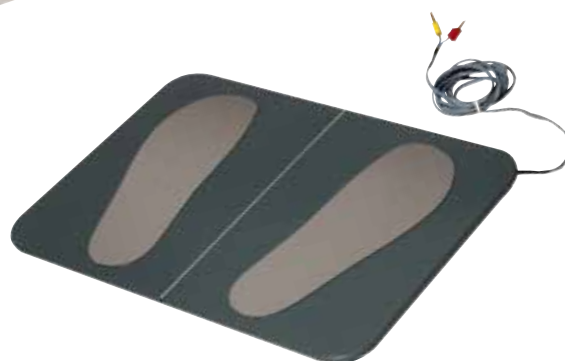
The used instruments and probes can be selected. Default texts are also editable.

Measurement structures can also be imported via Excel / csv.

Customer ID	Customer name	Building ID	Building Designation	ESD ID	ESD label	ESD type	ESD class	ESD points of measurement
5534	Building 53	10	Production	1	table mat grey	table_rpp	Qualification	2
5534	Building 53	22	Production	2	table mat grey	table_fg	Qualification	2
5534	Building 53	10	Production	3	chair Comfort	chair	Verification	3
5534	Building 45	22	QM Department	1	table mat blue	table_rpp	Qualification	2
5534	Building 45	23	QM Department	2	table mat blue	table_fg	Qualification	2
5534	Building 45	24	QM Department	3	chair Economy	chair	Verification	3
5534	Building 68	25	End test	1	garments AM160	garment	Verification	5
5534	Building 68	15	End test	2	garments Polo	garment	Verification	5



Video

Video
„hands-free“

Footwear electrode for separate
shoe testing
Dimension: 350 x 500 mm

The Personnell Grounding Tester PGT®120 is a wrist strap and footwear tester for access control of ESD protected areas (EPA's)

- The test result is indicated with audible and visual signals. A relay with a dry contact provides the connection to a door opening system
- Power supply: Internal battery or external power supply unit
- Wrist strap, right and left shoe testing is simultaneously possible by separate measuring circuits
- In combination with a barrier gate, the footwear measurement can be performed in series without pressing a button (hands-free mode).
- Separate measurement of left and right shoe
- Lower limit disabling is possible
- The unit can be used on bench tops or as a wall mounted unit (Wall mounting requires an additional wall mounting plate)
- Adjustable limits and specific functions through 12 dip switches

Includes:

PGT®120 unit, footwear testing electrode, operating instructions (english/german), Calibration Certificate, 9 volt battery and 230 VAC / 12 VAC power supply

IEC
EN

Part Nr.

7100.PGT120

Personnel Grounding Tester PGT®120



PGT®120 accessories see page 79



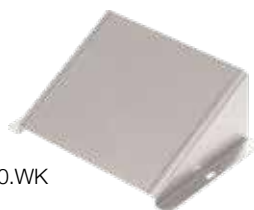
Calibration Unit for
PGT®120 with
8 Dip switches



Calibration Unit for
PGT®120 with
12 Dip switches



Mat for footwear electrode
Dimension: 830 x 680 x 13 mm
Delivered without footwear electrode



7100.PGT120.WK

Part Nr.	
7100.PGT120.WK	Wall mounting plate for PGT®120 and PGT® 120.COM
7100.PGT120.CU	Calibration unit for PGT® 120 and PGT® 120.COM incl. calibration certificate for PGTs with 8 Dip switches
7100.PGT120.CU.12	Calibration unit for PGT® 120 and PGT® 120.COM incl. calibration certificate for PGTs with 12 Dip switches
7100.PGT120.SM	Mat for footwear electrode with yellow bevelled edges, delivered without footwear electrode

STEEL POST FOR PGT®120 WITH HOLDER

application
example



7100.PGT120.WK.H

7100.PGT120.WK



- Powder coated steel post
- Colour: yellow
- Plastic coated steel base in black
- Post height: 960mm
- Base diameter: 350mm
- Weight: 10 kg
- Holder for PGT®120 attachable
- Standard wall bracket 7100.PGT120.WK adjustable on holder

1801.G.P.TERM



7100.PGT120.SM.TERM



Part Nr.	
1801.G.P.TERM	Steel post
7100.PGT120.WK.H	Holder for PGT®120, attachable
7100.PGT120.WK	Wall mounting plate
7100.PGT120.SM.TERM	Mat for footwear electrode with yellow bevelled edges, delivered without footwear electrode
7100.PGT120.TERM.SET	Set Pos. 1 – 4



PGTest STATION



Magnetic document holder made of IDP-STAT® - PVC in size DIN A3.
Usable for various labeling options.

application example



Special versions with touchscreen PC and printer available on request.



- Test station for PGT®120 or PGT®120.COM
- Dimensions: 1700 x 590 x 730 mm (H x W x D)
- **PGT®120 not included**

Part Nr.

7100.PGT120.TEST.V01

PGTest Station for PGT®120 / PGT®120.COM with magnetic document holder made of IDP-STAT-PVC in size DIN A3, incl. wall mounted container

PGT®120.COM WITH RS232 INTERFACE

The PGT®120.COM is a special version of the Personnel Grounding Tester PGT®120 and includes an additional RS232 interface.

The RS232 interface is able to process measurement data and test results in ASCII like time attendance systems.

- Adjustable door opening time (1 second or 3 seconds)
- Power supply: external power supply unit 230V AC / 12 V AC

Description of Interface:

- A computer or a terminal can be connected to the serial RS232 interface. Data is available in ASCII format, a computer with terminal program is sufficient to monitor measurement data in plain text.

Data:

- value footwear in series: value in kOhm
- value wrist strap system: value in kOhm
- value left foot: value in kOhm
- value right foot: value in kOhm
- test OK: OK
- test failed: Error no.

Includes:

PGT®120.COM, footwear testing electrode, calibration certificate, operating instructions (german/englisch), power supply 230 V AC / 12 V AC



Video

IEC
EN

Part Nr.

7100.PGT120.COM Special version PGT®120.COM with RS232-interface



PGT®120 accessories see page 79

PGT120.COM Data Terminal - Measurement

History Sysinfo Configuration Logout

Date	Time	Shoe left	Shoe right	Wrist strap	Result	ID	Temp.	RH
2017-09-09	09:24:48	8.1 MΩ	16.5 MΩ	2.4 MΩ	OK	Juergen Speicher	23.4°C	53.5%
2017-09-09	09:24:16	10.9 MΩ	13.3 MΩ	Hi Fail	Wrist strap Hi-Fail	Dirk Haase	23.4°C	53.5%
2017-09-09	09:23:28	Hi Fail	12.8 MΩ	Hi Fail	Wrist strap Hi-Fail; Left shoe Hi-Fail	Dirk Haase	23.4°C	53.5%
2017-09-09	09:22:32	10.9 MΩ	19.1 MΩ	2.4 MΩ	OK	Rainer Pfeifle	23.4°C	53.5%
2017-09-09	09:20:26			Hi Fail	Wrist strap Hi-Fail	Dirk Haase	23.3°C	54.5%
2017-09-09	09:18:37	10.4 MΩ	19.5 MΩ		OK	Dirk Haase	23.3°C	54.5%
2017-09-09	09:17:55			2.4 MΩ	OK	Rainer Pfeifle	22.6°C	57.5%
2017-09-09	09:17:10	11.5 MΩ	Hi Fail		Right shoe Hi-Fail	Juergen Speicher	22.6°C	57.5%
2017-09-09	09:15:30			2.3 MΩ	OK	Dirk Haase	22.6°C	57.5%
2017-09-09	09:15:25			2.3 MΩ	OK	Rainer Pfeifle	22.6°C	57.5%

When using the data terminal, the measurement results can be displayed on an external PC.



The „Data Terminal“ records the Personnel Grounding Tester's measurement data.

Properties:

- 30 days measurement data storage in data terminal
- Note: user identification via card reader and id card possible

Remote PC functions when connected to network:

- List of measurement data with coloured marking of failed tests
- Printed test results list
- WEB-interface for easy configuration
- German and English support

Includes:

Data Terminal with power supply, operating instructions (german/englisch)

Part Nr.

7100.PGT120.COM.DT Data Terminal

CARD READER AND ID CARD

NEW



Customized card reader available on request.

Part Nr.

Qty.

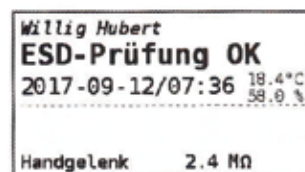
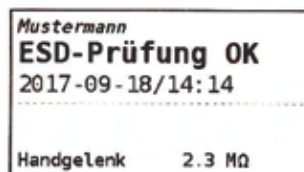
7100.PGT.XK.V3 HID-compatible USB card reader

1 pcs

7100.PGT.XK.ID.V3 ID card (LEGIC-Format)

10 pcs

LABEL PRINTER



sample application

- Label printing for passed tests with test results and measurement values from the data terminal (languages: German/English)
- If using a card reader for user identification, the name is shown on the label.

Includes:
Label printer with power supplies,
2 label rolls with 310 pcs/roll (36 x 67 mm),
operating instructions (german/english)

Part Nr.

7100.PGT120.COM.D.2	Label printer
7100.PGT120.COM.D.3	Label rolls 36 x 67 mm, unit: 2 rolls

ACCESSORIES FOR DATA TERMINAL

NEW



7100.PGT120.TEST.10



7100.PGT120.TEST.13



7100.PGT120.TEST.12



7100.PGT120.TEST.16

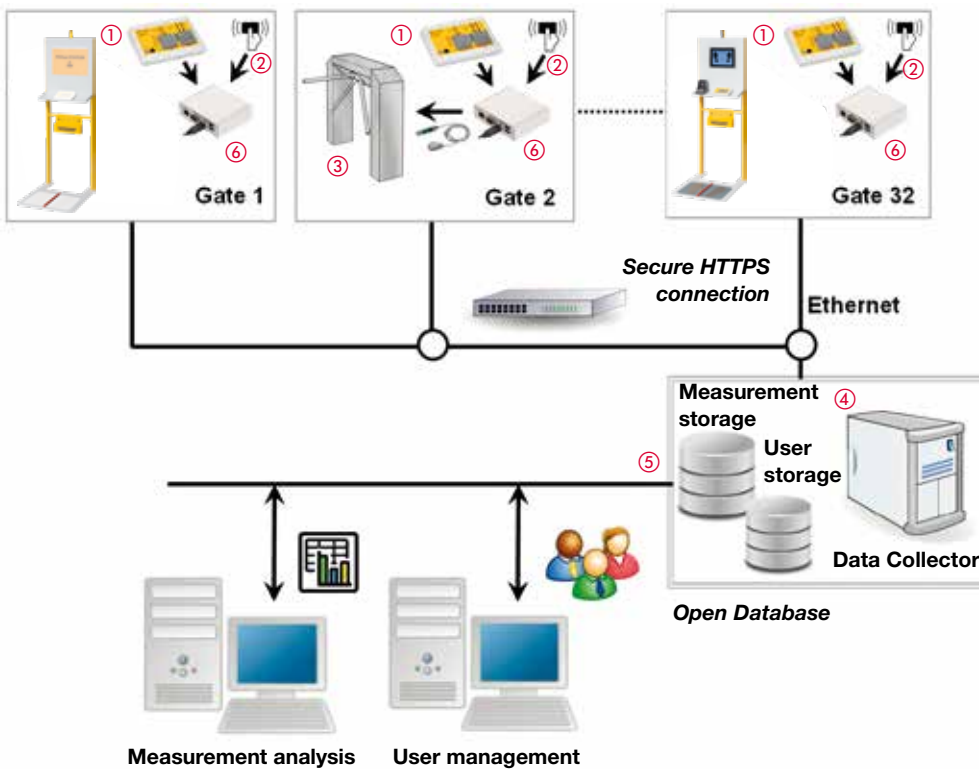
Part Nr.

7100.PGT120.TEST.10	Temperature / humidity sensor
7100.PGT120.TEST.12	USB-Relais-Modul, e. g. for switching a turnstile gate
7100.PGT120.TEST.13	Signal light (red/yellow/green) with acoustic sound
7100.PGT120.TEST.16	4-Port-USB-Hub

Central data maintenance for data terminal

- Ready to integrate into existing infrastructure
- Up to 32 PGT120.COM stations can be networked
- Existing identity cards or time attendance cards can be reused
- Customer systems can be connected via open database interface
- Measurement data is ready to process after a few seconds
- Various databases can be used
- Secure network communication

System design example



- ① The Data Terminal in combination with PGT120.COM collects ESD tests measurement data.
- ② User identification with any USB HID input device (RFID, bar-code, magnetic card, keyboard)
- ③ Optional USB relay to trigger a turnstile gate.
- ④ Central data collecting and control server synchronizes measurement data and access control
- ⑤ Open database interface for connecting customer systems
- ⑥ Data Terminal Controller

The screenshot shows the PGT120.COM software interface. The main window displays a table of measurement data. The table has columns for ID, Device, Location, Date, Time, and various status fields. The data is organized into a tree view on the left, showing different locations and devices. The right side of the interface shows a detailed view of the selected data, including a list of users and their access records.

ID	Device	Location	Date	Time	Status
1	PGT120.COM	10000000000000000000	2018-01-01	12:00:00	Access granted
2	PGT120.COM	10000000000000000000	2018-01-01	12:01:00	Access denied
3	PGT120.COM	10000000000000000000	2018-01-01	12:02:00	Access granted
4	PGT120.COM	10000000000000000000	2018-01-01	12:03:00	Access denied
5	PGT120.COM	10000000000000000000	2018-01-01	12:04:00	Access granted
6	PGT120.COM	10000000000000000000	2018-01-01	12:05:00	Access denied
7	PGT120.COM	10000000000000000000	2018-01-01	12:06:00	Access granted
8	PGT120.COM	10000000000000000000	2018-01-01	12:07:00	Access denied
9	PGT120.COM	10000000000000000000	2018-01-01	12:08:00	Access granted
10	PGT120.COM	10000000000000000000	2018-01-01	12:09:00	Access denied

Measurement data

Part Nr.

7100.PGT120.COM.SOFT Software for „Data Collection“, CD-ROM

The ESD-Audit-Kit includes the relevant test instruments for the verification of the ESD control elements according to IEC 61340-5-1 in an ESD protected area (EPA)

Applications

- Evaluate packaging material
- Evaluate garments
- Measure flooring, working surface and furniture resistance
- Measure electrostatic fields
- Measure temperature and relative humidity
- Analyze Ionizers performance
- incl walking test function with EFM51 and MK51 measuring head

Features

- Aluminium embossed conductive surface
- Dissipative foam inserts
- Removable, telescopic handle with castors
- ESD symbol
- Dimensions: 575 x 490 x 250 mm
- Tare: 7 kg

7110.600.SET.WT



7110.B530.SET.WT



Part Nr.	includes:	7110.B530. SET.WT (20 kg)	7110.600. SET.WT (20 kg)
7110.600	Aluminium case	X	X
7100.B530.G*	High Resistance Meter Metriso® 530B with connecting cables	X	
7100.3000.G*	High Resistance Meter Metriso® 3000 with connecting cables		X
7100.3000.TF	Temperature and humidity sensor Metriso® 3000		X
7100.TF530*	Thermo-Hygrometer TF-530	X	
7220.45	Handheld probe model 45	X	X
7220.840*	Two-Point-Probe model 840 (Mini Probe)	X	X
7220.880*	Ring probe model 880	X	X
7100.SRM110*	Surface Resistance Meter SRM 110	X	X
7100.EFM51.CPS*	Electrostatic Field Meter with charged plate set	X	X
7100.EFM51.MK51	Measuring head MK51 for EFM51®	X	X
7100.WT5000.ML	Connecting cable (Handheld probe/MK51)	X	X
7220.850	Probe model 850 (2 probes)		X
7220.870	Probe model 870 (2 probes)	X	
7220.870.V.SET	Extension rod for Probe model 870 (3 pcs.)	X	
2200.110	Grounding plug	X	X
7110.E8	8-socket grounding box	X	X
7100.2000.TR50	Cable reel, 50 m	X	X
7100.PGT100.102	Metal plate 400 x 300 x 2 mm incl. 10 mm snap with 4 mm banana plug adapter (2287.10.10)	X	X
7220.880.6	Insulative plate 120 x 120 x 6 mm (2 pcs.)	X	X
7220.880.9	Probe made of stainless steel, Ø 120 mm	X	X
7220.880.L	Guard cord, blue, 1,5 m		X

* Measuring equipment including calibration certificate



SRM MINI PROBE MODEL 410 FOR SRM 110 AND SRM 200



Video



application examples



- two point probe adapter
- suitable for SRM®110 and SRM®200

IEC
EN

Part Nr.

7220.410	SRM mini probe model 410
7220.844.C	Calibration Unit for SRM mini probe model 410, incl. calibration certificate, see page 89

SRM®110



Built-in bar electrodes

Pocket size, lightweight, surface resistance meter, includes carrying bag, grounding cord and calibration certificate.

- Test range: $10^3 - 10^{12}$ ohm
- Test voltage: open circuit voltage 100 V
- Operation: Battery operated
- Display: 12 LED display
- Probes: Built-in metal electrodes
(2 external probes connection possible)

Part Nr.

7100.SRM110.A	Surface resistance meter SRM® 110
----------------------	-----------------------------------

SRM®200/EFM® 51 STARTERKIT



Starterkit for testing conductive an dissipative surfaces and electrostatic fields/surface potentials

Includes:

- SRM®200
- EFM®51
- conductive carrying case

Part Nr.

7100.SRM200.SK51	SRM®200/EFM®51 Starterkit
-------------------------	---------------------------

VERIBOX



Metriso® B530



- The veribox contains resistors for the verification of high resistance tester before use
- 3 different resistors with 3 separate test sockets

Part Nr.

7100.VB	Veribox
----------------	---------



Built-in bar electrodes
with conductive rubber



Pocket size surface resistance meter with LCD display. Includes conductive carrying case, grounding cord, USB-Cable, calibration certificate and software for reading the saved test data.

- Integrated temperature- and humidity-sensor
- Test range: $10^3 - 10^{12}$ ohm
- Test voltage: open circuit voltage 100 V
- Operation: Battery operated
- Display: LCD-Display
- Probes: Built-in electrodes with conductive rubber
- with memory and USB connection to PC
- 2 external probes connection possible

Part Nr.

7100.SRM200.K Surface Resistance Meter SRM®200

7100.SRM110.L connecting cables, 2 x 1 m

SRM®200 – VERIFICATION KIT

NEW



sample applications



Verification Kit for measuring conductive and dissipative surfaces.

Includes:

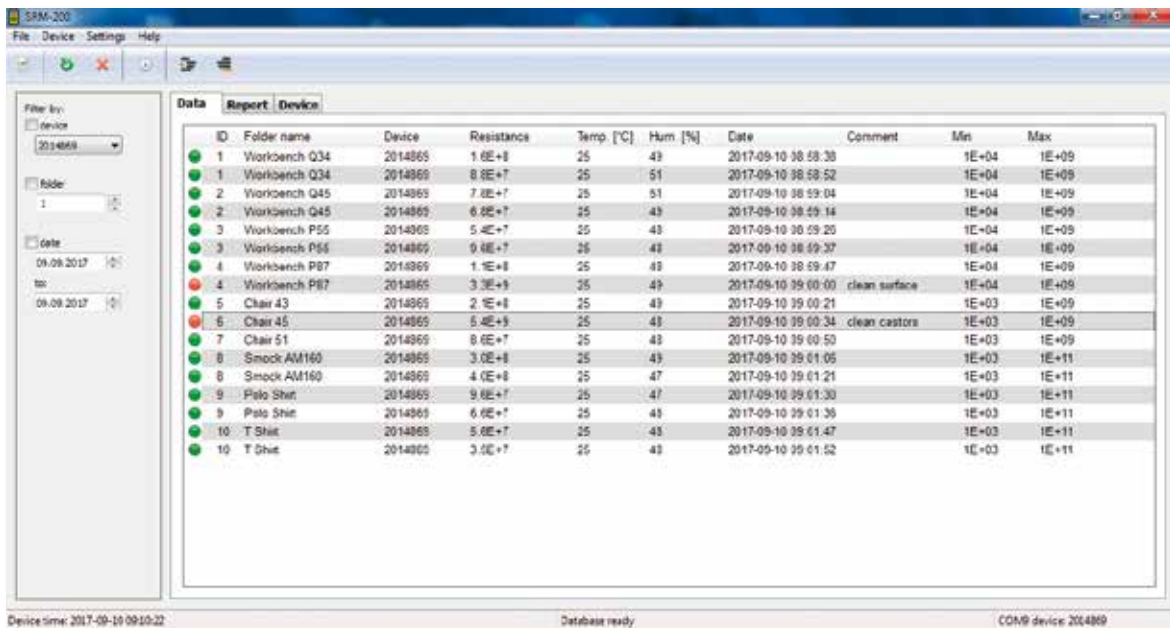
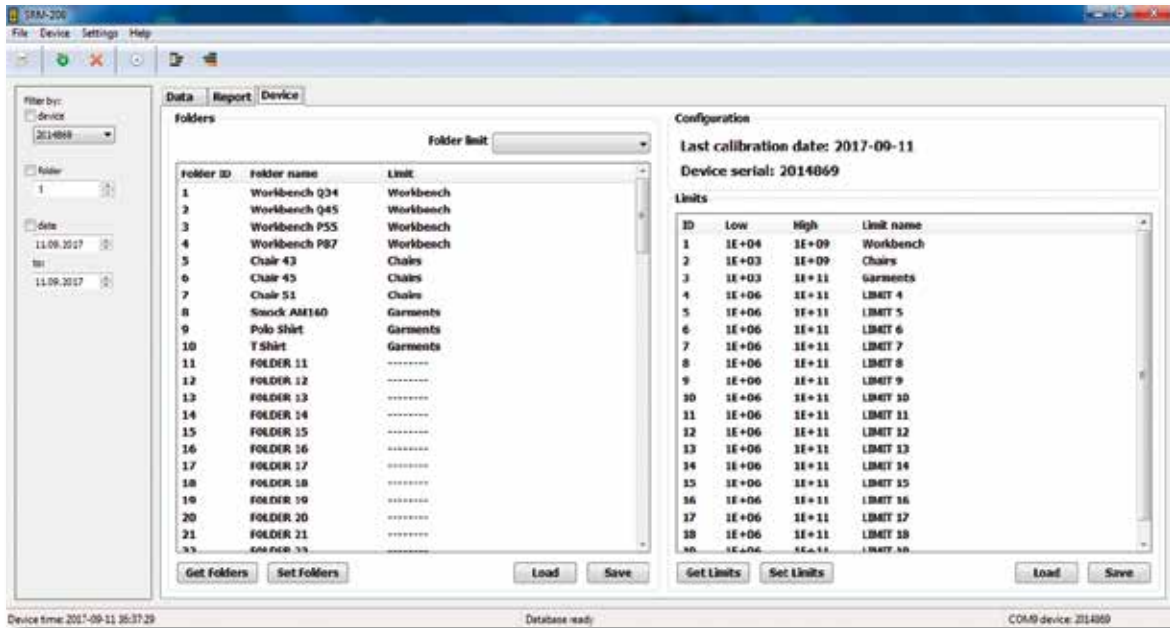
- 1 SRM®200 with various cables (Part Nr. 7100.SRM200.K)
- 2 Flat Probes Model 820
- 1 Mini Probe Modell 410
- 1 Hand-held probe Modell 45
- 2 connecting cables
- Calibration certificate
- Conductive carrying case



Video

Part Nr.

7100.SRM200.VK SRM®200 – verification kit



REPORT

Verification Tests ESD Area

Date: 2017-09-09 08:26:56

Author: Pfeifle Rainer



ID	Folder name	Device	Resistance	Temp. [°C]	Hum. [%]	Date	Comment	Min	Max
1	Workbench Q34	2014869	1.6E+8	25	49	2017-09-10 08:58:30		1E+04	1E+09
1	Workbench Q34	2014869	8.3E+7	25	51	2017-09-10 08:58:52		1E+04	1E+09
2	Workbench Q45	2014869	7.8E+7	25	49	2017-09-10 08:59:04		1E+04	1E+09
2	Workbench Q45	2014869	6.8E+7	25	49	2017-09-10 08:59:14		1E+04	1E+09
3	Workbench P55	2014869	5.4E+7	25	48	2017-09-10 08:59:26		1E+04	1E+09
3	Workbench P55	2014869	9.6E+7	25	48	2017-09-10 08:59:37		1E+04	1E+09
4	Workbench P87	2014869	1.1E+8	25	48	2017-09-10 08:59:47		1E+04	1E+09
4	Workbench P87	2014869	3.3E+9	25	49	2017-09-10 09:00:00	clean surface	1E+04	1E+09
5	Chair 43	2014869	2.1E+8	25	49	2017-09-10 09:00:21		1E+03	1E+09
5	Chair 45	2014869	5.4E+9	25	48	2017-09-10 09:00:34	clean castors	1E+03	1E+09
7	Chair 51	2014869	8.6E+7	25	48	2017-09-10 09:00:50		1E+03	1E+09
8	Smock AM160	2014869	3.0E+8	25	49	2017-09-10 09:01:05		1E+03	1E+11
8	Smock AM160	2014869	4.0E+8	25	47	2017-09-10 09:01:21		1E+03	1E+11
9	Polo Shirt	2014869	9.6E+7	25	47	2017-09-10 09:01:30		1E+03	1E+11
9	Polo Shirt	2014869	6.6E+7	25	48	2017-09-10 09:01:36		1E+03	1E+11
10	T-Shirt	2014869	5.6E+7	25	48	2017-09-10 09:01:47		1E+03	1E+11
10	T-Shirt	2014869	3.5E+7	25	48	2017-09-10 09:01:52		1E+03	1E+11

PROBE MODEL 850



ESD test point
label see page
132

- For resistance to ground and point to point resistance measurement
- Fitted with conductive silicone rubber electrode ($R < 20 \text{ ohm}$)
- 63,5 mm $\varnothing$
- 2,27 kg weight
- Insulated handle

complies with
IEC 61340-4-1
IEC 61340-2-3

IEC
EN

Part Nr.

7220.850	Probe model 850
7220.850.1	Insulated handle as spare part

PROBE MODEL 870



- For resistance to ground and point to point resistance measurement
- Fitted with conductive silicone rubber with silver particles ($R < 5 \text{ ohm}$)
- $\varnothing$ 63,5 mm
- 2,27 kg weight
- Insulated handle
- 4 mm banana plug socket underneath the handle

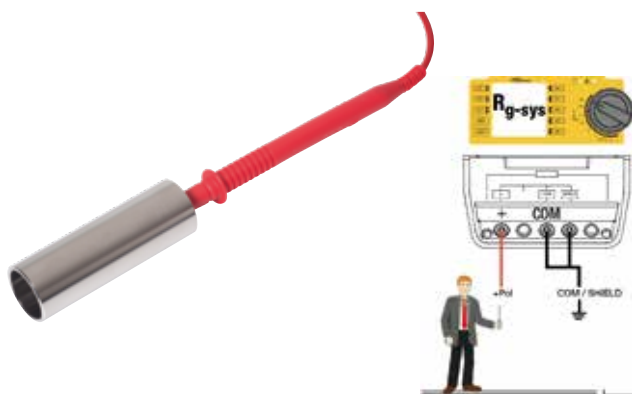
complies with IEC 61340-4-1, IEC 61340-2-3

IEC
EN

Part Nr.

7220.870	Elektrode Model 870
7220.870.V.SET	extension rod (3 pcs) with insulated handle
7220.870.G	Insulated handle (replacement)

HAND-HELD PROBE MODEL 45



Example:
Resistance measurement of a person
to ground using the hand-held probe

- Hand-held probe made of electro polished stainless steel
- $\varnothing$ 25 mm
- Length: 75 mm
- Weight: 130 g
- For body voltage measurement and overall system resistance measurement according IEC 61340-4-5

Part Nr.

7220.45.N	Hand-held probe model 45
------------------	--------------------------



- For the point to point measurement on small packaging and inside cavities
- Conductive rubber electrodes ($R < 20 \text{ ohm}$)
- Spring loaded mechanism for good contact
- Quick removable head
- Complies with IEC 61340-2-3
- Incl. calibration certificate

application example

IEC
EN

Part Nr.

7220.840.SET	Miniprobe Set Model 840 incl. conductive carrying case and a 2 point probe tip/model 844
7220.844.1	Replacement pins for probe tip 844 (unit: 2 pcs)
7220.844.C	Calibration Unit for Two-Point-Probe, incl. calibration certificate
7220.841	Probe tip „mini ring probe“ (optional for 7220.840.SET), incl. calibration certificate

POINT-TO-POINT PROBE MODEL 860



application example



- For the point to point and resistance to ground measurement at a 30 cm fixed distance between the electrodes
- Must be connected to a high resistance Ohmmeter
- Conductive rubber ($R < 5 \text{ ohm}$) with silver particles
- 950 g weight
- Dimensions: 385 x 85 x 70 mm (L x W x H)
- Contact rubber: $\varnothing 63,5 \text{ mm}$
- Incl. calibration certificate
- Insulative handle

Part Nr.

7220.860	Point-to-point probe model 860
-----------------	--------------------------------

METAL PLATE



7100.PGT100.102



2287.10.10

application example



- Dimension: 400 x 300 x 2 mm
- 10 mm snap
- For measuring shoes, chairs, transportsystems etc.
- Connection with 10 mm snap / 4 mm banana plug adapter

Part Nr.

7100.PGT100.102	Metal plate
2287.10.10	Banana plug adapter

TWO-SIDED PROBE MODEL 890



Concentric ring probe

Cylindrical probe
Ø 63,5 mm

- For resistance to ground-/ point-to-point resistance / surface resistance and volume resistance measurement
- Conductive rubber ($R < 5 \text{ ohm}$) with silver particles
- Weight: 2,5 kg
- Includes stainless steel plate, insulative plate, blue guard cord, conductive carrying case and calibration certificate

complies with
IEC 61340-4-1
IEC 61340-2-3



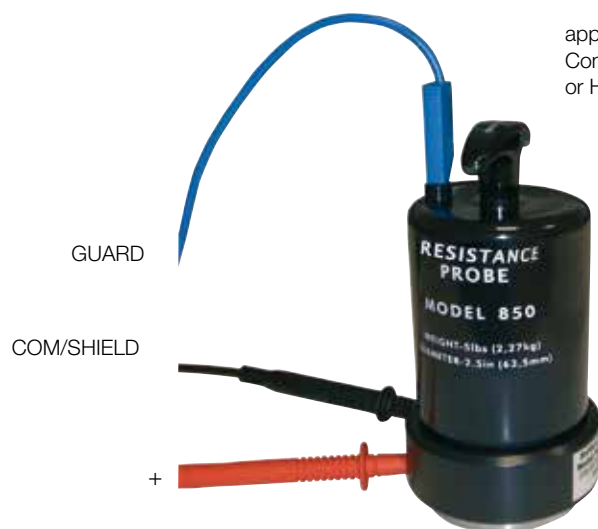
Video

application example: measurement
with concentric ring probeapplication example: measurement with
cylindrical probe

Part Nr.

7220.890.WE.SET Two-sided Probe Model 890

CONCENTRIC RING PROBE MODEL 880



application example:
Connection to METRISO® 3000
or High Resistance Meter



- Measures surface and volume resistance
- Concentric ring with conductive rubber ($R < 5 \text{ ohm}$) with silver particles
- External use of a 2,5 kg weight or 850 electrode required
- Includes stainless steel plate, insulative plate, conductive carrying case, blue guard cord and calibration certificate

complies with IEC 61340-2-3

IEC
EN

Part Nr.

7220.880.SET Concentric ring probe model 880



application example: measurement with cylindrical probe

application example: measurement with concentric ring probe

Video

cylindrical probe

ring probe

- Very light and universally usable probe for resistance to ground measurements, point-to-point measurements, surface resistance- and volume resistance measurements.
- Conductive rubber ($R < 5 \text{ Ohm}$) with silver particles
- Circle – and concentric ring probe as magnetic interchangeable unit
- The standard weight of 2,5 kg is reached by pushing down the spring loaded mechanism
- Includes stainless steel plate, insulative plate, conductive carrying case and calibration certificate

Complies with:
IEC 61340-4-1
IEC 61340-2-3

Part Nr.	Press Down Probe Model 830
7220.830.SET	

CLAMP PROBE



- For point-to-point resistance measurement on ESD garments
- Contact surface made of stainless steel 50 x 25 mm
- Clamps ensure good contact
- Connection: banana plug socket

complies with IEC 61340-4-9

Part Nr.	Qty.
7220.CL.49	Clamp probe pair

TRIPOD PROBE



- Tripod probe according to EN 1081 for resistance to ground measurement in relation to personal safety.
- For measurement of surface resistance, vertical resistance and resistance to ground according to EN 1081
- Weight 500g
- Contact via Banana Plug
- Rubber hardness: Shore 50-70 IRHD
- Contact rubber $R < 500 \text{ Ohm}$
- For measurements there is a need to apply a load of at least 300 N to the tripod electrode

Part Nr.	
7220.1081	Tripod probe

WALKING TEST KIT WT5000

Walking Test Kit, includes:

a WT5000 electrometer, A/D converter with software, hand-held probe, connecting cables, conductive carrying case, operating instructions in German and English and calibration certificate. The graph of the body voltage measurement will be displayed „online“ on the connected PC or LAPTOP.



Video

Electrometer WT5000:

- Test range: ± 5.000 volts or ± 500 volts
- Input resistance: $> 10^{14}$ ohm
- Input capacitance: < 5 pFarad
- Display: Logarithmic LED-display ± 500 volts, changeable to ± 5.000 volts, Peak hold
- Output: Analog ± 5 volts for each test range
- Operation: Rechargeable batteries (battery charger included)

Complies with IEC 61340-4-5

Includes:

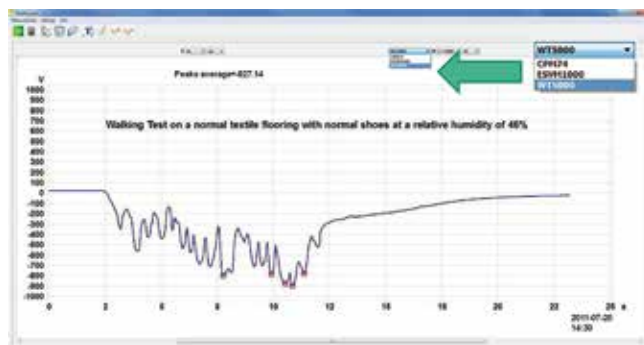
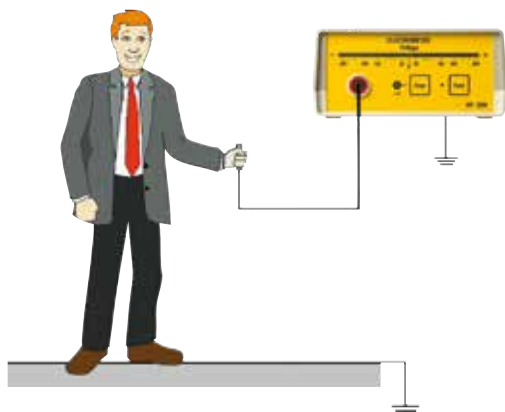
- Electrometer WT5000
- A/D converter UAD1 with USB connector
- Data acquisition and analysis software „Digilloscope“ for Windows®
- Handheld probe
- test lead
- 4 NiMH rechargeable batteries
- Charger
- Conductive carrying case

IEC
EN

Part Nr.

7100.WT5000.B Walking Test Kit – USB-Version

WALKING TEST BODY VOLTAGE MEASUREMENT



Body voltage measurement test set-up. The software „Digilloscope“ can mark the five highest peaks automatically and calculates the average value.

ANALOG/DIGITAL CONVERTER

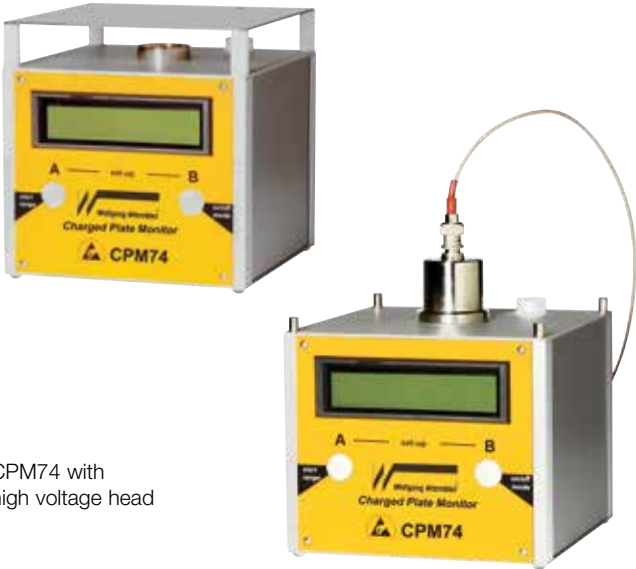


The UAD1 can be used with the following instruments:

- WT5000 (see above)
- ESV1000 (see page 94)
- CPM74 (see page 93)
- includes Data acquisition and analysis software „Digilloscope“ for Windows® 7/Windows® 10, 32-/64-bit

Part Nr.

7100.UAD1 Analog/Digital converter with USB connector - UAD1



- Measures the air ionizer efficiency and the offset voltage
- Measures the electrostatic decay time from ± 1000 V to ± 100 V (standard setting)
- Measures the (150 x 150 mm) plate potential with a built-in electrostatic field meter
- Plate can be removed in order to apply the high voltage head to the field meter
- High voltage head allows direct voltage measurement of up to 2 kV
- Size: 15,2 x 15,2 x 15,2 cm (W x H x D)
- **Includes:** Power supply 230 VAC, ground cord, conductive case, operating instructions in German and English, calibration certificate

Complies with IEC 61340-4-7

CPM74 with high voltage head



Video

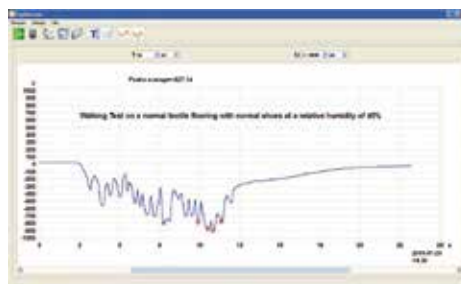
IEC
EN

Part Nr.	
7100.CPM74	Charged plate monitor CPM74
7100.CPM74.HM	High voltage head, including connecting cable





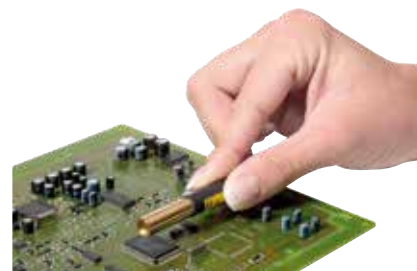
Hand held probe
for walking test



Analog/Digital converter with USB
connector - UAD1 see page 92



Video



application example

The electrostatic voltmeter ESVM 1000 is a microprocessor based non-contacting voltmeter which measures the electrostatic charges on very small objects. It is an ideal instrument for measurements on semiconductors, printed circuit boards, connector pins and other areas where a conventional electrostatic fieldmeter cannot be used.

The ESVM 1000 comes with a high resolution sensor which provides accurate results even in very small areas.

By using the special hand held probe 7100.ESVM1000.45 also the body voltage can be measured (walking test)

- Dimension: 15 x 10 x 22 cm (W x H x D)
- Range: 0 up to ± 1 kV DC or AC (Peak)
- Accuracy: 1% of full scale
- Recommended Probe-to-Test surface distance: 2,5 mm $\pm$ 1 mm
- Power supply: power supply 230 VAC/15 VDC
- Display: LCD-Display (4 x 20 digits)
- Sensor: Side-view probe (10 x 54 mm)
- Output: analog output

Includes:

ESVM 1000, probe (exchangeable), Power supply, conductive carrying case, operating instructions in German and English and calibration certificate.

For using the analog output we recommend the AD-converter type 7100.UAD1 with the software "Digilloscope" (see page 88).

Part Nr.

7100.ESVM1000 Electrostatic Voltmeter ESVM 1000

7100.ESVM1000.45 Hand held probe for walking test



The electrostatic voltmeter ESVM 2000 is a hand-held non-contacting voltmeter which measures the electrostatic charges on very small objects. It is an ideal instrument for measurements on semiconductors, printed circuit boards, connector pins and other areas where a conventional electrostatic fieldmeter cannot be used.

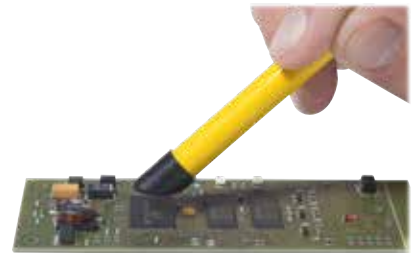
The ESVM 2000 comes with a high resolution sensor which provides accurate results even in very small areas.

- Dimension: 6 x 3 x 13 cm (W x H x D)
- Range: 0 up to ± 2 kV DC
- Accuracy: 5% of full scale
- Recommended Probe-to-Test surface distance: 15 mm $\pm$ 10 mm
- Power supply: battery operated
- Display: LCD-Display (3 ½ digits)
- Sensor: probe (10 x 80 mm)

Includes:
ESVM 2000, probe, 9 Volt battery,
conductive carrying case, operating instructions in
German and English and calibration certificate.



Video



application example

Part Nr.

7100.ESVM2000 Electrostatic voltmeter ESVM 2000

CONTACT VOLTMETER ESVM 821HH

The electrostatic contact voltmeter ESVM 821 is a hand-held contact voltmeter which measures the electrostatic charges on very small objects/surfaces. The ESVM 821 HH measures the surface potentials on conductive or insulative objects without charge transfer to the probe.

Therefore, measurements can be performed with high accuracy.

- Dimension: 240 mm x 140 mm x 52,5 mm (H x W x D)
- Range: 0 up to ± 2 kV DC or AC (peak)
- Accuracy: < 1% of full scale
- Input resistance: > 1×10^{14} ohm
- Input capacitance: < 1×10^{-14} farad
- Temperature/humidity: external temperature and humidity sensor
- Power supply: Battery or line operated
power supply 230 VAC

Includes:
ESVM821HH incl. battery, charger, carrying case,
operating instructions and calibration certificate



Video



sample application



Part Nr.

7100.ESVM821HH Contact voltmeter Model 821HH

ELECTROSTATIC FIELD METER EFM®51



Video



Handheld, portable, digital electrostatic field meter, detects and measures electrostatic fields.

The electrostatic field strength value (V/m) will be automatically translated to the electrostatic potential (V) according to the preset distance. An additional field strength mode is also available.

- Test method: Rotating chopper
- Test range: 0 V – ± 160 kV distance mode
0 – 800 kV/m Field strength mode
- Display: LCD display
- Operation: Battery operated
- Includes: ground cord, German and English operating instructions and calibration certificate

Part Nr.

7100.EFM51	Electrostatic Field Meter EFM®51 with carrying bag
7100.EFM51.PLUS	EFM®51 with conductive carrying case

EFM®51 – WALKING TEST KIT



Video



- EFM®51 with conductive base and the measuring head MK51
- By mounting the measuring head MK51 the EFM®51 can be used for verification measurement of body voltage (walking test) according to IEC 61340-4-5.
- The measuring head MK51 is specially calibrated for using the EFM®51
- The EFM®51 shows the positive and negative „PEAK“ value of the measured body voltage.

Includes:

- EFM®51 with measuring head MK51 in conductive carrying case
- conductive base, test lead and hand electrode
- 9V rechargeable battery + Charger

Part Nr.

7100.EFM51.WT	EFM®51 with carrying case, MK51, base and connecting cable
----------------------	--



- Hand held instrument for measuring air ionizers efficiency and offset voltage
- Measures the electrostatic decay time from +/- 1.000 volts to +/- 100 volts
- Measures the plate potential (75x150 mm) with the attached EFM®51
- Suitable for measurements inside machines
- Dimensions: 150 x 125 x 75 mm including Stand (W x H x D) with base

Includes: EFM®51, conductive carrying case, High voltage generator +/- 1200 Volt, conductive base, charging plate, ground connection, battery charger for 9 V batteries, spare 9 V rechargeable battery, calibration certificate, German and English operating instructions

Part Nr.

7100.EFM51.CPS Electrostatic field meter EFM®51 with charged plate set

7100.EFM51.CPS.SET Retrofit set - Charge Plate Set without EFM®51

EFM®51 – VERIFICATION KIT



Verification Kit for measuring electrostatic fields and electrostatic charges, as well as the body voltage of a person while performing the walking test. Additionally the decay time and the offset voltage of ionizers can be measured.

Includes:

- EFM®51 – CPS (Charged Plate Set)
- EFM®51 – Walking Test Kit
- Calibration certificate
- Conductive carrying case



Part Nr.

7100.EFM51.VK EFM®51 with carrying case, MK51, base, connecting cable and charged plate set



SMB60 – PORTABLE BENCHTOP IONIZER



Filter change illustration

- Quickly neutralizes static charges at work station or service areas
- Ionization area: 300 x 900 mm
- Integrated fan with variable speed
- High frequency, AC ionisation (HF-AC)
- Compact Piezoceramic high voltage transformer
- Power supply 24 VDC / 100-240 VAC with wall mounting transformer (included)
- Self balancing ± 20 V
- Replaceable air filter
- Alarm output
- Ozone generation 0,005 ppm, measured 15 cm in front of the unit

Size: 153 mm x 99 mm x 65 mm (W x H x D)

IEC
EN

Part Nr.

7520.HF.SMB60	Portable Ionizer
7520.HF.SMB60.F	Filter

5802 – PORTABLE BENCHTOP IONIZER

NEW



- Compact and portable, quickly neutralizes static charges
- Effective area 30 x 150 cm
- Automatic emitter point cleaner
- 2 step speed fan
- Ionization indicator
- Inherently balanced to ± 3 V
- DC technology (Steady State DC)
- Ozone generation: 0,008 ppm
- Suitable for cleanroom class 4, ISO 14644

Size: 267 x 193 x 127 mm (W x H x D)

IEC
EN

Part Nr.

7500.5802.CXL.E	Portable Ionizer
------------------------	------------------

ENDSTAT®2020 – PORTABLE BENCHTOP IONIZER



- Compact and portable, quickly neutralizes static charges
- Effective area 30 x 150 cm
- Unique point cleaner
- Integrated 2 speed fan
- Inherently balanced to ± 15 V
- AC technology, Ozone generation: 0,01 ppm, measured 15 cm in front of the unit

Size: 145 x 210 x 95 mm (W x H x D)

IEC
EN

Part Nr.

7500.ES2020	Portable Ionizer
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Accessories

- Rapid static charge decay times
- Effective area 90 x 180 cm
- Patented emitter point cleaner
- Integrated heater and 3-speed fan
- Ionization status light
- Inherently balanced to ± 5 V
- AC technology, Ozone generation: 0,005 ppm, measured 15 cm in front of the unit
- Size: 390 x 207 x 115 mm (W x H x D)

IEC
EN

Part Nr.

7500.XC	Benchtop Ionizer
7500.XC.F	Filter kit

AEROSTAT PC™ – PORTABLE BENCHTOP IONIZER



Accessories

- Compact and portable, quickly neutralizes static charges
- Effective area 30 x 150 cm
- Unique point cleaner
- Variable speed fan with integrated heater
- Ionization indicator
- Inherently balanced to ± 10 V
- AC technology, Ozone generation: 0,005 ppm, measured 15 cm in front of the unit

Size: 140 x 219 x 83 mm (W x H x D)

IEC
EN

Part Nr.

Qty.

7500.PC	Portable Ionizer	
7500.G.FR	Frame	
7500.G.F	Filter	6 pieces



MINION2™ – PORTABLE IONIZER



- Quickly neutralizes static charges
- Integrated variable speed fan
- DC technology (Steady State DC)
- Automatic self balancing ± 10 V
- Compact and portable
- Suitable for machine integration, has no power supply
- Direct connection to 24V DC machine power supply or to a 230V AC optional external power supply
- Easy maintenance
- Up to 3 units can be daisy chained
- Alarm indicator and alarm output
- Ozone generation: < 0,01 ppm, measured 15 cm in front of the unit
- Swivel arm, optional

Size: 98 x 136 x 60 mm (W x H x D)

IEC
EN

Part Nr.

7500.M2.Plus	minION2™ with power supply
7500.M2	minION2™ - standard version (without power supply)
7500.M2.T	Power supply 230 V AC / 24 V DC for minION2™
7500.M.S	Articulated arm for minION2™, incl. fastening clamp

SOB-2S / SOB-3S (N) OVERHEAD IONIZER – NEW VERSION

NEW



- Quickly neutralizes static charges on a work surface
- Effective area 60 x 80 cm (SOB-2S) / 60 x 120 cm (SOB-3S)
- Automatic emitter point cleaner
- 2 or 3 integrated 4 speed fans
- Remote control for: on/off function, setting of fan speed and emitter point cleaner
- Ionization indicator
- Inherently balanced to ± 2 V
- DC technology (Steady State DC)
- Ozone generation: 0,005 ppm, measured 30 cm in front of the unit

IEC
EN

Part Nr.	Model	Dimensions (W x H x D)
7520.SOB.2S.N	SOB-2S (N) Overhead model	757 x 84 x 160 mm
7520.SOB.3S.N	SOB-3S (N) Overhead model	967 x 84 x 160 mm



Fan in the middle without diffuser



Diffusor fan bottom view



Accessories

- Quickly neutralizes static charges on a work surface
- Effective area 60 x 120 cm
- Patented emitter point cleaner
- Integrated heater and 3 fans with variable speed
- The 2 outside fans are equipped with a diffuser
- Integrated task lights (2 x 13 watt twin tube)
- Ionization indicator
- Inherently balanced to ± 5 V
- AC technology
- Ozone generation: 0,02 ppm, measured 30 cm in front of the unit

Size: 1086 x 102 x 171 mm (W x H x D)

IEC
EN

Part Nr.

7500.G Aerostat Guardian™ Overhead Ionizer

7500.G.F filter, Qty. 6 pieces

7500.G.FR frame

AEROSTAT GUARDIAN CR 2000™ – OVERHEAD IONIZER



Fan bottom view

- Neutralization of electrostatic charges at work areas
- Patented emitter point cleaner
- Variable speed fans
- Fan speed lockout switch
- AC- Technology
- Inherently balanced to ± 5 V
- Built-in ionization and balance monitoring
- Ozone generation: 0,02 ppm, measured 30 cm in front of the unit
- Suitable for cleanroom class 4, ISO 14644

IEC
EN

Part Nr.

Model

Dimensions (W x H x D)

7500.G.CR2 2 fans 810 x 100 x 170 mm

7500.G.CR3 3 fans 1090 x 100 x 170 mm



7520.SIB3.XXX.RD



7520.SIB3.SBP.RD

- Ionizing bar:**
- Suitable for down-stream applications i.e. „laminar airflow boxes“
 - Air assistance for various applications
 - Pulsed AC high voltage ionization
 - Each tip emits positive and negative ions
 - Remote controller for adjustments of pulse frequency and duty cycle
 - Self-balancing $\pm 30V$
 - Control input and alarm output connector
 - 24V power supply
 - Easy emitter replacement

- Includes:**
- Ion bar without power supply
 - Remote control
 - 10 m power cable with RJ45 plug
 - 10 m signal cable with RJ45 plug

Power Supply for Aero-Body Ion Bar SIB3RD:

- power supply of 24V/DC for max. 4 bars



Part Nr.	
Aero-Body Ion Bar SIB3RD	
7520.SIB3.600.RD	660 mm, 13 emitters
7520.SIB3.700.RD	852 mm, 15 emitters
7520.SIB3.800.RD	962 mm, 17 emitters
7520.SIB3.900.RD	1017 mm, 18 emitters
7520.SIB3.1000.RD	1127 mm, 20 emitters
7520.SIB3.1200.RD	1292 mm, 23 emitters
7520.SIB3.1300.RD	1457 mm, 26 emitters
7520.SIB3.1500.RD	1567 mm, 28 emitters
7520.SIB3.1600.RD	1677 mm, 30 emitters
7520.SIB3.1800.RD	1897 mm, 34 emitters
7520.SIB3.2100.RD	2227 mm, 40 emitters
7520.SIB3.2200.RD	2337 mm, 42 emitters
7520.SIB3.2300.RD	2447 mm, 44 emitters
7520.SIB3.2500.RD	2667 mm, 48 emitters
7520.SIB3.3000.RD	3107 mm, 56 emitters
7520.SIB3.3200.RD	3272 mm, 59 emitters
Accessories	
7520.SIB3.SBP.RD	Power Supply 240VAC/24VDC for Aero-Body Ion Bar SIB3 RD



- Neutralization of electrostatic charges at work areas
- Effective area 60 x 90 cm
- Automatic emitter point cleaner
- 2 step speed fans
- Steady-state DC Technology
- Inherently balanced to ± 3 V
- Ozone generation: 0,02 ppm
- Suitable for cleanroom class 4, ISO 14644

IEC
EN

Part Nr.	Model	Dimensions (W x H x D)
7500.5810.C32X.E	2 fans	810 x 100 x 170 mm

FUSION™



application example

Mini Ionizer for applications with space constraint and low clearance

- Ideal for pick and place machines and wave soldering
- Integrated controller
- Self-balancing
- Steady State DC operation
- Up to 4 units can be interconnected
- Optional fan support
- Emitter points: tungsten

Dimensions: 115 x 33 x 31 mm (L x W x H)

IEC
EN

Part Nr.	
7500.FU	Fusion™ – Mini Ionizer
7500.FU.T	Fusion™ – Power supply 230V AC / 24V DC for up to 4 ionizers
7500.FU.F	Fusion™ – Optional fan assembly 44 x 44 x 50 mm (L x W x H)



TOP GUN™ 3 / TOP GUN™ WITH SIDEKICK (FOOT PEDAL)



- Quickly neutralizes static charges
- Ergonomically designed features
- Air pressure supply needed between 1 and 6,8 bar
- For use in electronic and cleanroom manufacturing
- Replaceable filter (0,01µ)
- Variable air flow (**only Top Gun 3**)
- Ionization voltage applied only when the air flows
- Ionization inherently balanced to ± 15 V
- AC technology
- Ozone production: 0,001 ppm (measured 45 cm in front of the unit)
- AirGun: Dissipative Polycarbonate/ABS
- Connecting cable: Dissipative Polyurethane
- Controller Size: 13,2 x 8,5 x 16,4 cm (W x H x D)

IEC
EN

Part Nr.		
Top Gun™ 3		
7500.TG3	Standard version, cable length 2,1 m	
7500.TG3.42	Special version, cable length 4,2 m	
Top Gun™ with sidekick		
7500.TG3.SK	with flexible neck and foot pedal „side kick“	
Filter for TG3 and Orion		Qty.
7500.TG3.F	Filter	2 pcs
7500.TG3.F.T	Special filter, Teflon®	2 pcs
Accessories		
7500.TG3.H	Gun hanger	

ORION™ WITH SIDEKICK (FOOT PEDAL) / ORION™



Technical description and filter as Top Gun™ 3.

IEC
EN

Part Nr.		
7500.O.SK	Orion with flexible neck and foot pedal „side kick“ (included)	
7500.O	Free mountable air nozzle, remote controlled with electrical activation	
7500.O.N	Free mountable air nozzle with proximity sensor	
7500.O.SK.N	Orion with flexible neck and proximity sensor	



- Quickly neutralizes static charges
- Ergonomically designed features
- Triggered by button on the gun grip
- Replaceable emitter module and air filter
- Ionization inherently balanced to ± 30 V
- Easy maintenance
- DC technology (Steady State DC)
- Air pressure supply needed

Includes:

Air gun, Controller 24 V AC, Power supply 230V AC

Applications:

Cleaning of liquid crystal displays (LCD), Lenses, etc.
Neutralizes static charges in the electronics, optics and pharmaceutical industry.



IEC
EN

Part Nr.

7500.6115.PLUS	AirForce 6115 with power supply
7500.6115	AirForce 6115 without power supply
7500.6115.N	Power supply 230 VAC
7500.6115.SWT	Foot pedal AirForce 6115
7500.6115.MS	Swivel arm
7500.6115.F	Air filter cartridge

ECO GUN



- Quickly neutralizes static charges
- Triggered by button on the gun grip
- Piezoceramic high voltage transformer
- High frequency, AC ionisation (HF-AC)
- Easy maintenance
- **No power supply needed**
- Monitoring of high voltage with LED
- Adjustable air flow by choke valve
- operating pressure: 3–5 bar

Application: Cleaning of plastic parts

IEC
EN

Part Nr.

7530.IG	Eco gun
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SPN11 – IONIZING NOZZLE



7520.HF.SPN11



7520.HF.SPN11.S



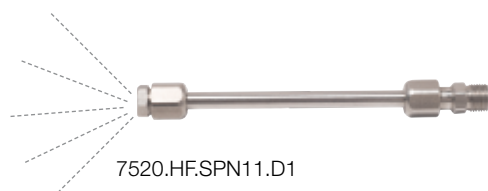
7520.HF.SPN11.B1-B4



7520.HF.SPN11.T



7520.HF.SPN11.E



7520.HF.SPN11.D1

- Quickly neutralizes static charges in machines
- High frequency, AC ionisation (HF-AC)
- Compact Piezoceramic high voltage transformer
- Power supply 24V DC / 100-240V AC with wall mounting transformer
- Emitter points: tungsten
- Easy maintenance
- Compact size
- Self balancing $\pm 15V$
- Ozone generation $< 0,001$ ppm, measured 15 cm in front of the unit
- Red LED high voltage failure alarm
- Different stainless steel available
- Alarm output

Size: 2,9 cm x 6,8 cm x 7,7 cm (W x H x D)

Includes: SPN-11, power supply 230V AC / 24V DC



sample application

IEC
EN

Part Nr.

7520.HF.SPN11 Ionizing Nozzle SPN11

7520.HF.SPN11.S Ionizing Nozzle SPN11 with proximity sensor

Optional		Length	Air holes	Pitch
7520.HF.SPN11.B1	Nozzle/Tube Material: stainless steel, Cleanroom compatible	267,5 mm	42	10 mm
7520.HF.SPN11.B2	Nozzle/Tube Material: stainless steel, Cleanroom compatible	217,5 mm	16	10 mm
7520.HF.SPN11.B3	Nozzle/Tube Material: stainless steel, Cleanroom compatible	217,5 mm	31	5 mm
7520.HF.SPN11.B4	Nozzle/Tube Material: stainless steel, Cleanroom compatible	367,5 mm	31	10 mm
7520.HF.SPN11.E	ELBOW Coupling 90° angle, Material: stainless steel, Cleanroom compatible	58 mm		
7520.HF.SPN11.T	Tube air nozzle (4mm), for 6 mm hose			
7520.HF.SPN11.D1	90° nozzle			



Our range of static dissipative brushes allows thorough cleaning of ESD-sensitive assemblies without the danger of high charges generated by conventional brushes. The high resilient, permanent static dissipative Nylon 6.12 bristles will allow a controlled static dissipation to ground. Includes the ESD Symbol.

IEC
EN

Part Nr.	Size	Description
① 6104.Y.103	12,5 mm	Flat hard brush
② 6104.Y.104	19 mm	Flat hard brush
③ 6104.Y.105	25 mm	Flat hard brush
④ 6104.Y.106	38 mm	Flat hard brush
⑤ 6104.Y.107	50 mm	Flat hard brush
⑥ 6104.Y.200	3 mm	Round hard brush
⑦ 6104.Y.201	6 mm	Round hard brush
⑧ 6104.Y.9001	30 mm	Hard brush
⑨ 6104.Y.9002	60 mm	Hard brush
⑩ 6104.Y.4000	80 mm	Hard brush
⑪ 6104.Y.1200	17 mm	Hard brush key ring

IEC
EN

Our range of conductive brushes allows thorough cleaning of ESD sensitive assemblies without the danger of high charges generated by conventional brushes. They consist of a conductive plastic handle and bristles made of highly conductive fibers which will dissipate any charges by corona discharge, due to their small diameter. Natural hair is mixed with the conductive fibers to provide the desired stiffness. Includes the ESD Symbol.

Part Nr.	Size	Description
① 6100.103	12,5 mm	Flat hard brush
② 6100.104	19 mm	Flat hard brush
③ 6100.105	25 mm	Flat hard brush
④ 6100.106	38 mm	Flat hard brush
⑤ 6100.107	50 mm	Flat hard brush
⑥ 6100.200	3 mm	Round hard brush
⑦ 6100.201	6 mm	Round hard brush
⑧ 6100.9001	30 mm	Hard brush
⑨ 6100.9002	60 mm	Hard brush
⑩ 6100.1001	140 mm	Flat soft brush
⑪ 6100.4000	80 mm	Hard brush
⑫ 6100.1200	25 mm	Soft brush key ring
⑬ 6105.RB	Ø 125 mm	Round hand brush
⑭ 6105.120.K	275 mm	Small hand brush



In contrast to conventional brushes, when using this conductive brush assortment, static charges on ESD sensitive PCBs can be minimized. The durable, permanently conductive bristles made of nylon 6.12 ensure a controlled charge dissipation.

IEC
EN

Part Nr.	Size	Description
① 6103.B.103	12,5 mm	Flat hard brush
② 6103.B.104	19 mm	Flat hard brush
③ 6103.B.105	25 mm	Flat hard brush
④ 6103.B.106	38 mm	Flat hard brush
⑤ 6103.B.107	50 mm	Flat hard brush
⑥ 6103.B.200	3 mm	Round hard brush
⑦ 6103.B.201	6 mm	Round hard brush
⑧ 6103.B.4000	80 mm	Hard brush
⑨ 6103.B.9001	30 mm	Hard brush
⑩ 6103.B.9002	60 mm	Hard brush



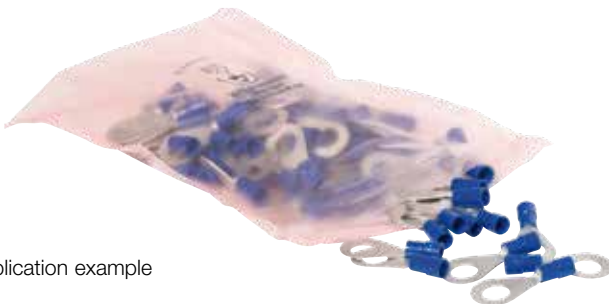
- Static dissipative Polyethylene film
- Heat sealable
- Recyclable
- Colour: Pink
- Standard print: Product name, ESD symbol, Recycling symbol and LOT Nr.

IEC
EN



Part Nr.	Bag sizes inner dim.	Bags per box
60 µm		
3110.360.1	100 x 150 x 0,06 mm	2500 pcs
3110.361.1	130 x 200 x 0,06 mm	2500 pcs
3110.362.1	150 x 225 x 0,06 mm	1000 pcs
3110.363.1	200 x 250 x 0,06 mm	1000 pcs
3110.364.1	250 x 300 x 0,06 mm	500 pcs
3110.365.1	300 x 400 x 0,06 mm	500 pcs
3110.366.1	400 x 500 x 0,06 mm	500 pcs
3110.368.1	400 x 600 x 0,06 mm	500 pcs
3110.367.1	500 x 600 x 0,06 mm	500 pcs
100 µm		
3110.360	100 x 150 x 0,10 mm	2500 pcs
3110.361	130 x 200 x 0,10 mm	2500 pcs
3110.362	150 x 225 x 0,10 mm	1000 pcs
3110.363	200 x 250 x 0,10 mm	1000 pcs
3110.364	250 x 300 x 0,10 mm	500 pcs
3110.365	300 x 400 x 0,10 mm	500 pcs
3110.366	400 x 500 x 0,10 mm	500 pcs
3110.368	400 x 600 x 0,10 mm	500 pcs
3110.367	500 x 600 x 0,10 mm	500 pcs

application example

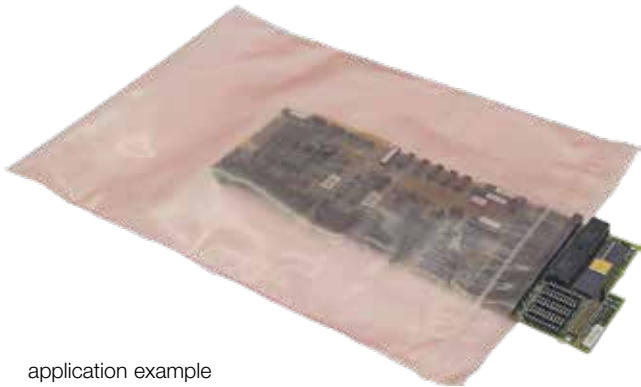




- Static dissipative Polyethylene film
- Heat sealable
- Recyclable
- Colour: Pink
- Standard print: Product name, ESD symbol, Recycling symbol and LOT Nr.

IEC
EN

Part Nr.	Bag sizes inner dim.	Bags per box
60 µm		
3120.3301	80 x 120 x 0,06 mm	5000 pcs
3120.3311	100 x 150 x 0,06 mm	5000 pcs
3120.3361	120 x 170 x 0,06 mm	5000 pcs
3120.3321	150 x 225 x 0,06 mm	2500 pcs
3120.3331	200 x 250 x 0,06 mm	1000 pcs
3120.3341	250 x 300 x 0,06 mm	1000 pcs
3120.3351	300 x 400 x 0,06 mm	1000 pcs
100 µm		
3120.330	80 x 120 x 0,10 mm	5000 pcs
3120.331	100 x 150 x 0,10 mm	2500 pcs
3120.336	120 x 170 x 0,10 mm	2500 pcs
3120.332	150 x 225 x 0,10 mm	1000 pcs
3120.333	200 x 250 x 0,10 mm	1000 pcs
3120.334	250 x 300 x 0,10 mm	1000 pcs
3120.335	300 x 400 x 0,10 mm	500 pcs



application example



PERMASTAT® CUSHION MATERIAL (WITHOUT PRINT)



application example



ø 30 mm bubble
on request.



2 layer = 75 µm



3 layer = 120 µm

- Dissipative 3 layer or 2 layer cushion material
- Flat inner and outer layers
- Heat sealable
- Recyclable

IEC
EN

Part Nr.	Width	Length	Roll
Flat inner and outer layers, 3 layer			
3150.379	300 mm	100 m	30 m²
3150.380	400 mm	100 m	40 m²
3150.381	600 mm	100 m	60 m²
3150.382	1200 mm	100 m	120 m²
One side flat, one side with bubbles, 2 layer			
3160.0300	300 mm	100 m	30 m²
3160.0400	400 mm	100 m	40 m²
3160.0600	600 mm	100 m	60 m²
3160.1200	1200 mm	100 m	120 m²

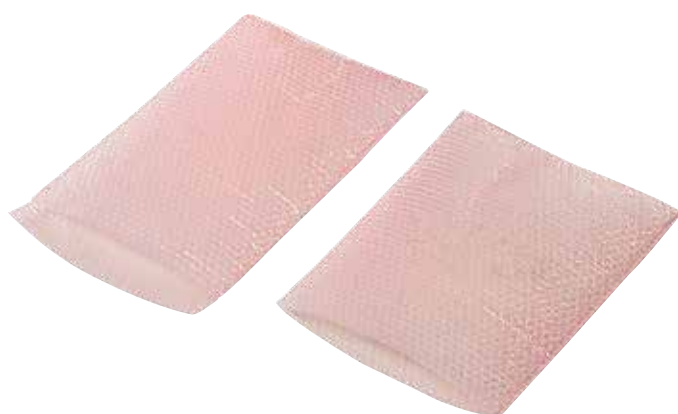
Cushion Separators (without print), 3 layer

3152.550.350 550 x 350 mm (for 400 x 600 mm tote boxes)

3152.350.250 350 x 250 mm (for 300 x 400 mm tote boxes)

tote boxes see pages 150 – 153

PERMASTAT® CUSHION POUCHES (WITHOUT PRINT)



3 layer = 120 µm

- Dissipative 3 layer cushion material
- Flat inner and outer layers
- Heat sealable
- Recyclable

IEC
EN

Part Nr.	Bag Sizes inner dim.	Bags per box
Cushion Pouches (without print), 3 layer		
3151.360	100 x 150 mm + 50 mm flap	500 pcs
3151.361	130 x 200 mm + 50 mm flap	250 pcs
3151.362	150 x 225 mm + 50 mm flap	250 pcs
3151.363	200 x 250 mm + 50 mm flap	250 pcs
3151.364	250 x 300 mm + 50 mm flap	250 pcs

Custom sizes with or without flap available on request.



- Standard print:
Product name, ESD symbol, Recycling symbol

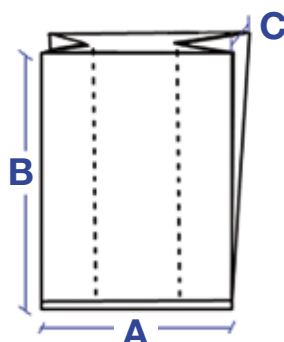
IEC
EN

Part Nr.	Roll width inner dim.	Roll length
PERMASTAT® Tubing		
3130.340	100 x 0,10 mm	250 m
3130.341	130 x 0,10 mm	250 m
3130.342	150 x 0,10 mm	250 m
3130.343	200 x 0,10 mm	250 m
3130.344	250 x 0,10 mm	250 m
3130.345	300 x 0,10 mm	250 m
3130.346	400 x 0,10 mm	250 m
3130.347	500 x 0,10 mm	250 m
PERMASTAT® Half Tubing		
3135.15.0910	910/910 x 0,15 mm	250 m
PERMASTAT® Flat film		
3140.1200.040	1200 x 0,04 mm	500 m

PERMASTAT® ♦
WASTE BAGS



- Static dissipative Polyethylene
- Recyclable
- ESD symbol
- Recycling symbol
- Colour: Pink



Gusseted bags

*Custom bags, covers, layflat material and custom printing available on request.

IEC
EN

Part Nr.	Sizes (A + C x B)	Volume	Quantity
3110.850	300 + 200 x 600 x 0,020 mm	30 litres	500 Gusseted bags/roll for waste basket
3110.850.2	380 + 320 x 1100 x 0,060 mm	120 litres	100 Gusseted bags/roll for waste basket
3110.890	500 + 400 x 1200 x 0,080 mm	190 litres	100 Gusseted bags/roll for multi use bin
3110.853	750 + 750 x 1800 x 0,080 mm	600 litres	75 Gusseted bags/roll for waste trolley
3110.850.1	700 x 1100 x 0,060 mm	120 litres	100 bags/roll for waste basket



PERMASTAT® ♦ GUSSETED BAGS FOR TOTE BOXES



- Static dissipative Polyethylene
- Recyclable
- ESD symbol
- Recycling symbol
- Colour: Pink

*Custom bags, covers, layflat material and custom printing available on request.

Part Nr.	Size	Qty
3113.0600.0700	600 + 400 x 700 x 0,050 mm	250 pcs/ box
3113.0440.0500	440 + 340 x 500 x 0,050 mm	500 pcs/ box

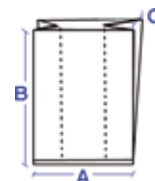
PERMASTAT® ♦ GUSSETED COVERS



application examples



- Static dissipative Polyethylene film
- For pallets and cages
- Recyclable
- perforated, on roll
- Colour: pink



Part Nr.	Inner sizes (A + C x B)	Thickness	Qty
3113.1250.1850	1250 + 850 x 1850 mm max. usable size 1200 x 800 x 1450 mm	0,15 mm	40 pcs/ roll
3113.1250.0900	1250 + 850 x 900 mm max. usable size 1200 x 800 x 500 mm	0,15 mm	40 pcs/ roll

PERMASTAT® ♦ STRETCH FILM AND STRETCH FILM UNWINDER



- Static dissipative
- Recyclable
- Colour: Pink
- Suitable for machine wrapping

Stretch film unwinder

- Fits 38 and 50 mm core diameters
- Adjustable for 300, 400, 450 or 500 mm width
- Adjustable breaking resistance for optimal handling
- Weight: 1,7 kg



IEC
EN

Part Nr.	Roll width	Roll length	Thickness	Ø Core	Qty
3170.0300	500 mm	300 m	0,025 mm	50 mm	4
3170.1560	500 mm	1560 m	0,025 mm	76 mm	1

Accessories

3170.HA	Stretch film unwinder
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- Permanent, static dissipative, IDP-STAT® film
- Heat sealable
- Recyclable
- Colour: orange
- Standard print: Product name, ESD symbol, Recycling symbol and LOT Nr.

IEC
EN

Part Nr.	Bag sizes inner dim.	Bags per box
IDP-STAT® Bags		
3010.150.IDP	100 x 150 x 0,07 mm	2500 pcs
3010.151.IDP	130 x 200 x 0,07 mm	2500 pcs
3010.152.IDP	150 x 225 x 0,07 mm	1000 pcs
3010.153.IDP	200 x 250 x 0,07 mm	1000 pcs
3010.154.IDP	250 x 300 x 0,07 mm	500 pcs
3010.155.IDP	300 x 400 x 0,07 mm	500 pcs
3010.156.IDP	400 x 500 x 0,07 mm	500 pcs
Part Nr.	Roll width	Roll length
IDP-STAT® Half Tubing		
3035.90.0910.IDP	910/910 x 0,09 mm	250 m
Standard print: Product name, ESD symbol, Recycling symbol		



CARBOSTAT®**CUSHION MATERIAL AND CUSHION SEPARATORS**

- 3 layer cushion material, thickness: 160 µm
- Permanent, conductive, carbon loaded material
- Heat sealable
- Flat inner and outer layers
- Recyclable
- Colour: Black



Carbostat® 2 layer Cushion Material
available on request.

IEC
EN

Part Nr.	Width	Length	Roll
CARBOSTAT® Cushion Material			
Flat inner and outer layers			
3250.370	300 mm	100 m	30 m²
3250.371	400 mm	100 m	40 m²
3250.372	600 mm	100 m	60 m²
3250.373	1200 mm	100 m	120 m²
CARBOSTAT® Cushion separators (without print)			
3252.550.350	550 x 350 mm (for 600 x 400 mm tote boxes)		
3252.350.250	350 x 250 mm (for 400 x 300 mm tote boxes)		
tote boxes see pages 152 – 153			



- Permanent, conductive, carbon loaded material
- Protection against electrostatic fields
- Heat sealable
- Recyclable
- Colour: Black
- Standard print: Product name, ESD symbol, Recycling symbol and Lot Nr.

**IEC
EN**

Part Nr.	Bag sizes inner dim.	Bags per box
3210.150	100 x 150 x 0,08 mm	5000 pcs
3210.151	130 x 200 x 0,08 mm	2500 pcs
3210.152	150 x 225 x 0,08 mm	2500 pcs
3210.153	200 x 250 x 0,08 mm	1500 pcs
3210.154	250 x 300 x 0,08 mm	1000 pcs
3210.155	300 x 400 x 0,08 mm	1000 pcs
3210.156	400 x 500 x 0,08 mm	500 pcs
3210.157	500 x 600 x 0,08 mm	500 pcs
3210.162	350 x 450 x 0,08 mm	1000 pcs



Custom bags, covers, layflat material and custom printing available on request.

CARBOSTAT®
TUBING


- Permanent, conductive, carbon loaded material
- Protection against electrostatic fields
- Heat sealable
- Recyclable
- Colour: Black
- Standard print: Product name, ESD symbol, Recycling symbol and Lot Nr.

**IEC
EN**

Part Nr.	Roll width inner dim.	Roll length
3230.250	100 x 0,08 mm	500 m
3230.251	130 x 0,08 mm	500 m
3230.252	150 x 0,08 mm	500 m
3230.253	200 x 0,08 mm	500 m
3230.254	250 x 0,08 mm	500 m
3230.255	300 x 0,08 mm	500 m
3230.256	400 x 0,08 mm	250 m
3230.257	500 x 0,08 mm	250 m
3230.258	600 x 0,08 mm	250 m



Custom sizes available on request!

- Shielding bag, “metal in” construction
- Protection against electrostatic discharge and electrostatic fields
- Outer layer dissipative Polyester
- Aluminium metallized
- Inner layer – dissipative Polyethylene
- Heat sealable
- Standard print: Product name, ESD symbol, Recycling symbol and production date

IEC
EN

Part Nr.	Bag sizes inner dim.	Quantity
3310.HS.0305	76 x 127 mm	100 pcs
3310.HS.0404	102 x 102 mm	100 pcs
3310.HS.0406	102 x 152 mm	100 pcs
3310.HS.0426	102 x 660 mm	100 pcs
3310.HS.0508	127 x 203 mm	100 pcs
3310.HS.0608	152 x 203 mm	100 pcs
3310.HS.0610	152 x 254 mm	100 pcs
3310.HS.0626	152 x 660 mm	100 pcs
3310.HS.0810	203 x 254 mm	100 pcs
3310.HS.0812	203 x 305 mm	100 pcs
3310.HS.0816	203 x 406 mm	100 pcs
3310.HS.0818	203 x 457 mm	100 pcs
3310.HS.1012	254 x 305 mm	100 pcs
3310.HS.1014	254 x 356 mm	100 pcs
3310.HS.1026	254 x 660 mm	100 pcs
3310.HS.1115	279 x 381 mm	100 pcs
3310.HS.1212	305 x 305 mm	100 pcs
3310.HS.1216	305 x 406 mm	100 pcs
3310.HS.1218	305 x 457 mm	100 pcs
3310.HS.1418	356 x 457 mm	100 pcs
3310.HS.1618	406 x 457 mm	100 pcs
3310.HS.1818	457 x 457 mm	100 pcs
3310.HS.1820	457 x 508 mm	100 pcs
3310.HS.1824	457 x 609 mm	100 pcs
3310.HS.2024	508 x 609 mm	100 pcs





- Shielding bag, „metal in“ construction
- Protection against electrostatic discharge and electrostatic fields
- Outer layer dissipative Polyester
- Aluminium metallized
- Inner layer – dissipative Polyethylene
- Heat sealable
- Standard print: Product name, ESD symbol, Recycling symbol
- Production code „MMYYYY“ stamped in welding seam
- Each unit is sealed in a Highshield® bag

Sealed packing unit

IEC
EN

Part Nr.	Bag sizes inner dim.	Quantity	Bags per unit
3315.HS.0305.A	76 x 127 mm	100 pcs	3000 pcs
3315.HS.0404.A	102 x 102 mm	100 pcs	3000 pcs
3315.HS.0406.A	102 x 152 mm	100 pcs	3000 pcs
3315.HS.0426.A	102 x 660 mm	100 pcs	1600 pcs
3315.HS.0508.A	127 x 203 mm	100 pcs	2000 pcs
3315.HS.0608.A	152 x 203 mm	100 pcs	2000 pcs
3315.HS.0610.A	152 x 254 mm	100 pcs	2000 pcs
3315.HS.0626.A	152 x 660 mm	100 pcs	1000 pcs
3315.HS.0810.A	203 x 254 mm	100 pcs	2000 pcs
3315.HS.0812.A	203 x 305 mm	100 pcs	2000 pcs
3315.HS.0816.A	203 x 406 mm	100 pcs	1000 pcs
3315.HS.0818.A	203 x 457 mm	100 pcs	1000 pcs
3315.HS.1012.A	254 x 305 mm	100 pcs	1000 pcs
3315.HS.1014.A	254 x 356 mm	100 pcs	1000 pcs
3315.HS.1026.A	254 x 660 mm	100 pcs	700 pcs
3315.HS.1115.A	279 x 381 mm	100 pcs	1000 pcs
3315.HS.1212.A	305 x 305 mm	100 pcs	1000 pcs
3315.HS.1216.A	305 x 406 mm	100 pcs	1000 pcs
3315.HS.1218.A	305 x 457 mm	100 pcs	800 pcs
3315.HS.1418.A	356 x 457 mm	100 pcs	700 pcs
3315.HS.1618.A	406 x 457 mm	100 pcs	600 pcs
3315.HS.1818.A	457 x 457 mm	100 pcs	500 pcs
3315.HS.1820.A	457 x 508 mm	100 pcs	500 pcs
3315.HS.1824.A	457 x 609 mm	100 pcs	400 pcs
3315.HS.2024.A	508 x 609 mm	100 pcs	400 pcs





- Shielding bag, “metal in” construction
- Protection against electrostatic discharge and electrostatic fields
- Outer layer dissipative Polyester
- Aluminium metallized
- Zip lock
- Inner layer - dissipative Polyethylene
- Standard print: Product name, ESD symbol, Recycling symbol and production date

IEC
EN

Part Nr.	Bag sizes inner dim.	Bags per box
3320.WV.0305	76 x 127 mm	100 pcs
3320.WV.0406	102 x 152 mm	100 pcs
3320.WV.0508	127 x 203 mm	100 pcs
3320.WV.0610	152 x 254 mm	100 pcs
3320.WV.0810	203 x 254 mm	100 pcs
3320.WV.0812	203 x 305 mm	100 pcs
3320.WV.1012	254 x 305 mm	100 pcs
3320.WV.1014	254 x 356 mm	100 pcs
3320.WV.1216	305 x 406 mm	100 pcs
3320.WV.1218	305 x 457 mm	100 pcs
3320.WV.1418	356 x 457 mm	100 pcs
3320.WV.1818	457 x 457 mm	100 pcs





Sealed packing unit

- Shielding bag, "metal in" construction
- Protection against electrostatic discharge and electrostatic fields
- Outer layer - dissipative Polyester
- Inner layer - dissipative Polyethylene
- Aluminium metallized
- Zip lock
- Standard print: Product name, ESD symbol, Recycling symbol
- Production code „MMYYYY“ stamped in welding seam
- Each unit is sealed in a Highshield® bag

IEC
EN

Part Nr.	Bag sizes inner dim.	Bags per unit
3325.WV.0305.A	76 x 127 mm	100 pcs
3325.WV.0406.A	102 x 152 mm	100 pcs
3325.WV.0508.A	127 x 203 mm	100 pcs
3325.WV.0610.A	152 x 254 mm	100 pcs
3325.WV.0810.A	203 x 254 mm	100 pcs
3325.WV.0812.A	203 x 305 mm	100 pcs
3325.WV.1012.A	254 x 305 mm	100 pcs
3325.WV.1014.A	254 x 356 mm	100 pcs
3325.WV.1216.A	305 x 406 mm	100 pcs
3325.WV.1218.A	305 x 457 mm	100 pcs
3325.WV.1418.A	356 x 457 mm	100 pcs
3325.WV.1818.A	457 x 457 mm	100 pcs

HIGHSHIELD®**CUSHION MATERIAL (WITHOUT PRINT)**

3 layer = 160 µm



Custom sizes with or without flap
available on request.

Metallized rolls

- Protection against electrostatic discharge and electrostatic fields
- 3 layer cushion material
- Outer layer – **HIGHSHIELD** film, flat
- Inner layer – **PERMASTAT®** film, flat
- Heat sealable
- Recyclable

IEC
EN

Part Nr.	Width	Length	Roll
3350.392	300 mm	100 m	30 m ²
3350.393	400 mm	100 m	40 m ²
3350.394	600 mm	100 m	60 m ²
3350.395	1200 mm	100 m	120 m ²

HIGHSHIELD®**CUSHION POUCHES (WITHOUT PRINT)**

3 layer = 160 µm

Metallized rolls

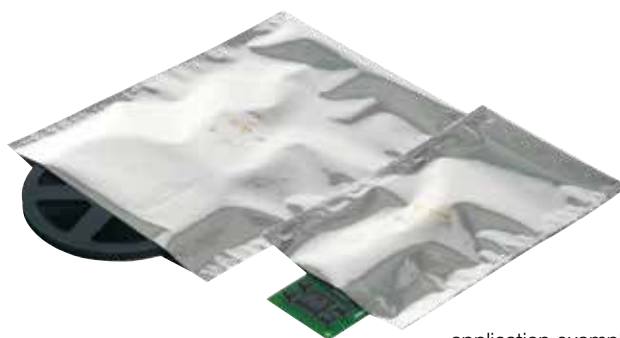
- Protection against electrostatic discharge and electrostatic fields
- 3 layer cushion material
- Outer layer – **HIGHSHIELD** film, flat
- Inner layer – **PERMASTAT®** film, flat
- Heat sealable
- Recyclable

IEC
EN

Part Nr.	Bag Sizes inner dim.	Bags per box
3351.0406	100 x 150 mm + 50 mm flap	500 pcs
3351.0508	130 x 200 mm + 50 mm flap	250 pcs
3351.0609	150 x 225 mm + 50 mm flap	250 pcs
3351.0810	200 x 250 mm + 50 mm flap	250 pcs
3351.1012	250 x 300 mm + 50 mm flap	250 pcs

Delivered only in whole boxes as indicated above

- Shielding bag with moisture barrier
- Protection against electrostatic discharge and electrostatic fields
- Complies with MIL-B81705 Type 1 Class 1
- EMI - Shielding > 40 db
- The moisture barrier property is achieved through the multilayer construction which includes dissipative Polyester, Aluminium metallization and dissipative Polyethylene
- Heat sealable
- Can be used for vacuum packaging applications
- Standard print: Product name, ESD symbol, barrier bag symbol, Recycling symbol and production date



application example

IEC
EN

Part Nr.	Bag sizes inner dim.	Bags per box
3710.DR.0426	102 x 660 mm	100 pcs
3710.DR.0626	152 x 660 mm	100 pcs
3710.DR.0810	203 x 254 mm	100 pcs
3710.DR.1012	254 x 305 mm	100 pcs
3710.DR.1020	254 x 508 mm	100 pcs
3710.DR.1026	254 x 660 mm	100 pcs
3710.DR.1626	406 x 660 mm	100 pcs
3710.DR.1818	457 x 457 mm	100 pcs

NEW

NEW



Custom sizes available on request.

DRY-SHIELD TYPE A SHIELDING BAGS

- Shielding bag with moisture barrier
- Protection against electrostatic discharge and electrostatic fields
- Complies with MIL-B81705 Type 1 Class 1
- EMI - Shielding > 40 dB
- The moisture barrier property is achieved through the multilayer construction which includes dissipative Polyester, Aluminium metallization and dissipative Polyethylene
- Heat sealable
- Can be used for vacuum packaging applications
- Standard print: Product name, ESD symbol, barrier bag symbol, Recycling symbol and production date imprinted in welding rod
- Each unit is sealed in a Highshield® bag



IEC
EN

Part Nr.	Bag sizes inner dim.	Bags per unit
3715.DR.0426.A	102 x 660 mm	100 pcs
3715.DR.0626.A	152 x 660 mm	100 pcs
3715.DR.0810.A	203 x 254 mm	100 pcs
3715.DR.1012.A	254 x 305 mm	100 pcs
3715.DR.1020.A	254 x 508 mm	100 pcs
3715.DR.1026.A	254 x 660 mm	100 pcs
3715.DR.1626.A	406 x 660 mm	100 pcs
3715.DR.1818.A	457 x 457 mm	100 pcs

NEW

NEW



application example



DRY-SHIELD-JEDEC SHIELDING BAGS



- Shielding bag with moisture barrier
- Complies with JEDEC-STD-033
- EMI - Shielding > 40 db
- Specially designed for ESD and moisture vapor barrier applications
- Multilayer construction – Nylon, Aluminium and Polyethylene
- Heat sealable
- Can be used for vacuum packaging applications
- Standard print: Product name, ESD symbol, barrier bag symbol, Recycling symbol and lot Nr.

IEC
EN

Part Nr.	Bag sizes inner dim.	Bags per box
3710.DR150.0426	102 x 660 mm	100 pcs
3710.DR150.0626	152 x 660 mm	100 pcs
3710.DR150.1026	254 x 660 mm	100 pcs
3710.DR150.1626	406 x 660 mm	100 pcs
3710.DR150.1818	457 x 457 mm	100 pcs

DESICCANT BAGS – FLEECE BAG



To calculate the required number of desiccant units (TME) follow the guidelines of the DIN 55474 standard.

- For very sensitive products
- high tensile strength / dustproof
- Bags will be delivered in the indicated quantity only

Part Nr.	Size	Quantity
3775.VA.017000	1/6-unit (app. 6 g)	1.350 pcs
3775.VA.033000	1/3-unit (app. 12 g)	800 pcs
3775.VA.050000	1/2-unit (app. 18 g)	720 pcs
3775.VA.101000	1-unit (app. 35 g)	400 pcs
3775.VA.102000	2-unit (app. 70 g)	240 pcs
3775.VA.104000	4-unit (app. 145 g)	120 pcs

HUMIDITY INDICATOR CARDS



Humidity Indicator Cards display the moisture level within the moisture barrier bags. The Indicator Cards are free of cobalt.

- Each unit is packed in a Dry-Shield-bag

Part Nr.	Quantity
3785.0560.CF 5% - 10% - 60% Relative humidity range	125 pcs
3785.1060.CF 10% - 20% - 30% - 40% - 50% - 60% Relative humidity range	200 pcs

DESICCANT BAGS – SODA PAPER



To calculate the required number of desiccant units (TME) follow the guidelines of the DIN 55474 standard.

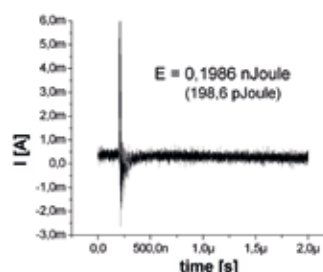
- for highly sensitive products, reduced tear resistance
- Bags will be delivered in the indicated quantity only
- dustproof

Part Nr.	Size	Quantity
3775.PA.017000	1/6-unit	1.350 pcs
3775.PA.033000	1/3-unit	800 pcs
3775.PA.050000	1/2-unit	720 pcs
3775.PA.101000	1-unit	400 pcs
3775.PA.102000	2-unit	240 pcs

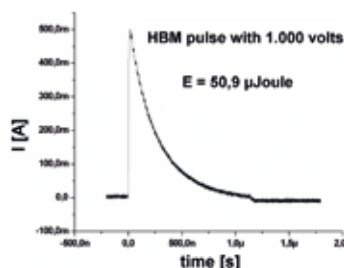
The patented Safeshield shipping cardboard boxes provide a high protection against electrostatic discharge and against electrostatic fields. They are ideal for packing, stocking and shipping ESD sensitive components (ESDS).

IEC
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- High shielding performance due to highly conductive inner layer
- Inner and outer permanent static dissipative layers
- Good mechanical properties
- Recyclable
- Reusable
- Non-corrosive
- No heavy metals
- Colour: Blue
- Print: ESD and Resy symbols, warning note in German and English
- UV resistant



Energy test with Safeshield® shipping boxes according to HBM test method with 1.000 V



Energy test without shielding.

SAFESHIELD® STACKING BOX



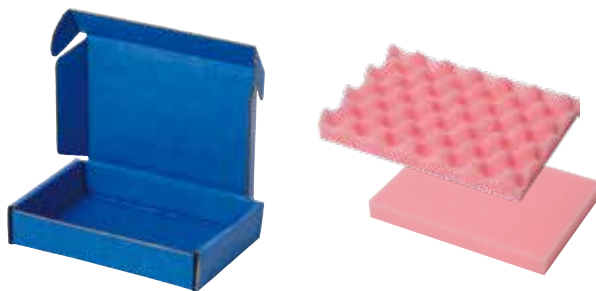
- Rugged construction
- Safe transport stacking design
- Closed handholds, with print, delivered flat

Cover:

- Finish with 4-point-gluing

IEC
EN

Part Nr.	Outer Dim. mm (D x W x H)	Inner Dim. mm (D x W x H)
Stacking Box		
5510.SB.400.A	385 x 275 x 105 mm	360 x 250 x 100 mm
5510.SB.400.B	385 x 275 x 215 mm	360 x 250 x 210 mm
5510.SB.600.A	575 x 385 x 105 mm	550 x 360 x 100 mm
5510.SB.600.B	575 x 385 x 215 mm	550 x 360 x 210 mm
Cover		
5510.SB.43		390 x 280 x 40 mm
5510.SB.64		580 x 390 x 40 mm

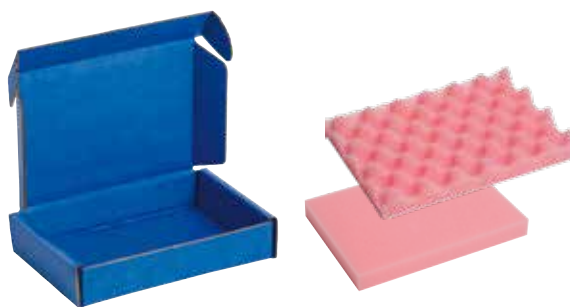
SAFESHIELD®
 SHIPPING BOXES – DELIVERED FLAT


- Please order foam inserts separately
- FEFCO-Code 0427

Part Nr.	Inner sizes	Quantity
5510.903	183 x 127 x 38 mm	100 pcs

Foam inserts for Part Nr. 5510.903

Part Nr.	Sizes	Profile	Quantity
4903.0.15	178 x 127 x 15 mm	flat	100 pcs
4903.0.20	178 x 127 x 20 mm	flat	100 pcs
4903.1.15	178 x 127 x 15 mm	profile 1:1	100 pcs
4903.1.20	178 x 127 x 20 mm	profile 1:1	100 pcs

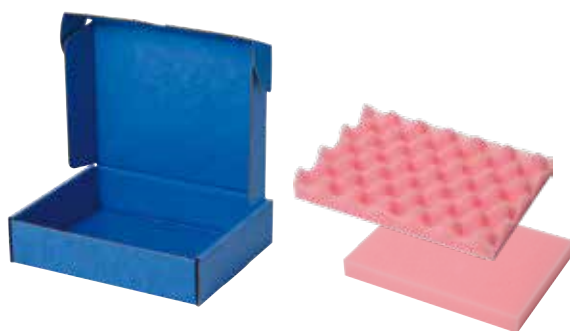
SAFESHIELD®
 SHIPPING BOXES – DELIVERED FLAT


- Please order foam inserts separately
- FEFCO-Code 0427

Part Nr.	Inner sizes	Quantity
5510.904	250 x 191 x 38 mm	100 pcs

Foam inserts for Part Nr. 5510.904

Part Nr.	Sizes	Profile	Quantity
4904.0.15	250 x 191 x 15 mm	flat	100 pcs
4904.0.20	250 x 191 x 20 mm	flat	100 pcs
4904.1.20	250 x 191 x 20 mm	profile 1:1	100 pcs

SAFESHIELD®
 SHIPPING BOXES – DELIVERED FLAT


- Please order foam inserts separately
- FEFCO-Code 0427

Part Nr.	Inner sizes	Quantity
5510.905	250 x 191 x 64 mm	100 pcs

Foam inserts for Part Nr. 5510.905

Part Nr.	Sizes	Profile	Quantity
4904.0.15	250 x 191 x 15 mm	flat	100 pcs
4904.0.20	250 x 191 x 20 mm	flat	100 pcs
4904.1.20	250 x 191 x 20 mm	profile 1:1	100 pcs

SAFESHIELD®
 SHIPPING BOXES – DELIVERED FLAT


- Please order foam inserts separately
- FEFCO-Code 0427

Part Nr.	Inner sizes	Quantity
5510.906	267 x 216 x 64 mm	100 pcs

Foam inserts for Part Nr. 5510.906

Part Nr.	Sizes	Profile	Quantity
4906.0.20	267 x 216 x 20 mm	flat	100 pcs
4906.1.30	267 x 216 x 30 mm	profile 1:1	100 pcs

SAFESHIELD® SHIPPING BOXES – DELIVERED FLAT



- Please order foam inserts separately
- FEFCO-Code 0427

Part Nr.	Inner sizes	Quantity	
5510.910	420 x 220 x 40 mm	100 pcs	
Foam inserts for Part Nr. 5510.910			
Part Nr.	Sizes	Profile	Quantity
4910.0.15	420 x 220 x 15 mm	flat	100 pcs
4910.1.20	420 x 220 x 20 mm	profile 1:1	100 pcs

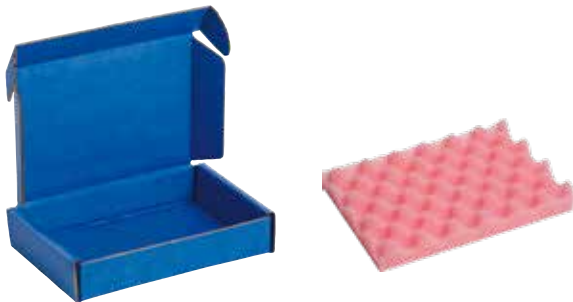
SAFESHIELD® SHIPPING BOXES – DELIVERED FLAT



- Please order foam inserts separately
- FEFCO-Code 0427

Part Nr.	Inner sizes	Quantity	
5510.911	400 x 300 x 65 mm	100 pcs	
Foam inserts for Part Nr. 5510.911			
Part Nr.	Sizes	Profile	Quantity
4911.0.20	400 x 300 x 20 mm	flat	80 pcs
4911.1.30	400 x 300 x 30 mm	profile 1:1	50 pcs

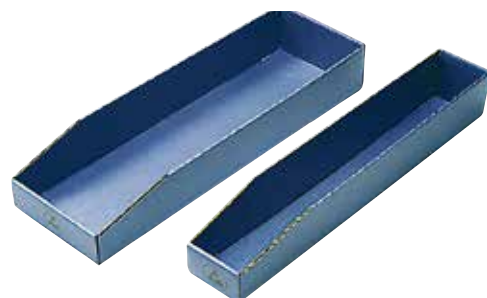
SAFESHIELD® SHIPPING BOXES – DELIVERED FLAT



- open, delivered flat without foam
- FEFCO-Code 0427
- PU foam: Profile 1:1

Part Nr.	Inner sizes	Quantity	compatible foam inserts
5510.912	250 x 191 x 110 mm	100 pcs	4904.1.20
5510.913	300 x 300 x 100 mm	100 pcs	4913.1.20
5510.914	330 x 180 x 70 mm	100 pcs	4914.1.20
5510.915	380 x 320 x 60 mm	100 pcs	4915.1.20
5510.916	393 x 300 x 90 mm	100 pcs	4916.1.20
5510.917	420 x 220 x 65 mm	100 pcs	4910.1.20
5510.918	490 x 460 x 80 mm	100 pcs	4918.1.20

SAFESHIELD® SHIPPING BOXES – DELIVERED FLAT



- open, delivered flat
- FEFCO-Code 0423

Part Nr.	Inner sizes	Quantity
5510.095	630 x 95 x 95 mm	100 pcs
5510.195	630 x 195 x 95 mm	100 pcs

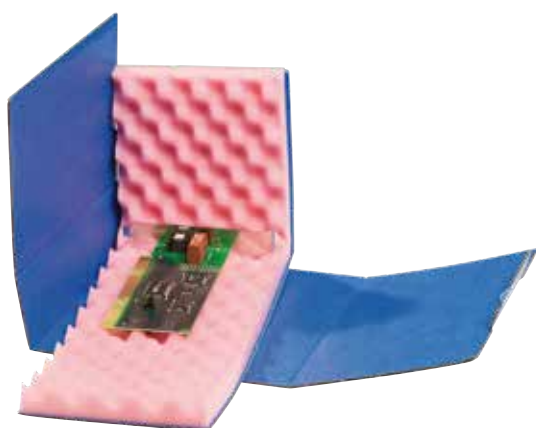
SAFESHIELD® SHIPPING BOXES – ASSEMBLED



- Incl. 1 pink dissipative PU foam, soft, profile 1:1
- FEFCO-Code 0427

Part Nr.	Inner sizes	Quantity	foam inserts
5510.903.A15	183 x 127 x 38 mm	50 pcs	4903.1.15
5510.903.A20	183 x 127 x 38 mm	50 pcs	4903.1.20
5510.904.A20	250 x 191 x 38 mm	20 pcs	4904.1.20
5510.905.A20	250 x 191 x 64 mm	10 pcs	4904.1.20
5510.906.A30	267 x 216 x 64 mm	10 pcs	4906.1.30
5510.910.A20	420 x 220 x 40 mm	10 pcs	4910.1.20
5510.911.A30	400 x 300 x 65 mm	5 pcs	4911.1.30

SAFESHIELD® SHIPPING BOXES – DELIVERED FLAT



- Incl. pink dissipative 20 mm PU foam, soft, profile 1:1
- FEFCO-Code 0473

Part Nr.	Inner sizes	Quantity
5510.907.S	150 x 115 x 40 mm	100 pcs
5510.907	200 x 140 x 50 mm	80 pcs
5510.907.L	280 x 140 x 100 mm	50 pcs

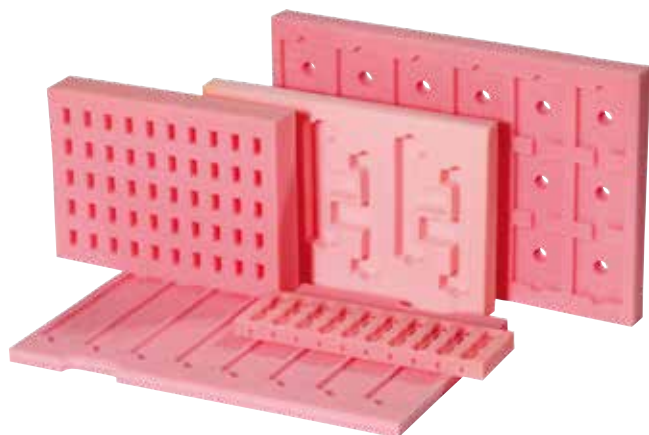
SAFESHIELD® E-PROM SHIPPING BOXES – DELIVERED FLAT



- Incl. 6 mm PE conductive foam
- FEFCO-Code 0400

Other foams available on request.

Part Nr.	Inner sizes	Quantity
5510.902	95 x 30 x 15 mm	100 pcs
5510.908	100 x 60 x 15 mm	700 pcs
5510.909	100 x 120 x 15 mm	400 pcs



- PU foam
- Static dissipative
- Open cell
- Semi-rigid
- Abrasion resistant, non-corrosive
- Colour: pink

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Custom sizes and sheets
available on request.

POLYURETHANE SOFT FOAM



application example

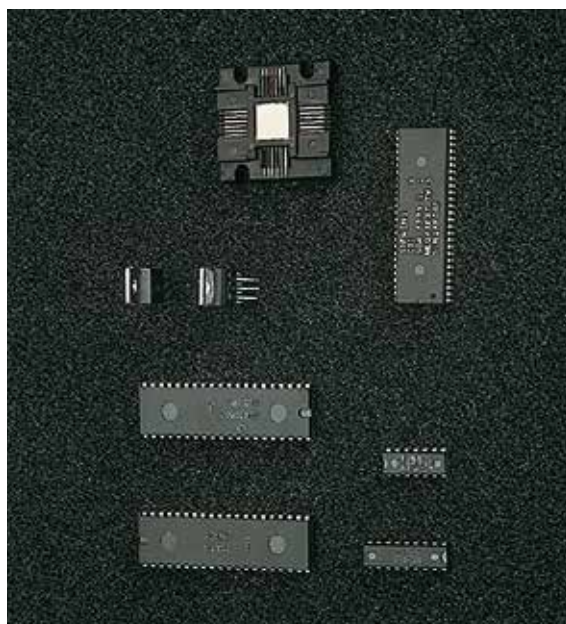
- PU foam
- Static dissipative
- Open cell
- Soft
- Colour: Pink

IEC
EN

Part Nr.	Sizes	Profile	Qty. p. box
Foams for Safeshield® Shipping Boxes			
4903.0.15	178 x 127 x 15 mm	flat	100 pcs
4903.0.20	178 x 127 x 20 mm	flat	100 pcs
4903.1.15	178 x 127 x 15 mm	profile 1:1	100 pcs
4903.1.20	178 x 127 x 20 mm	profile 1:1	100 pcs
4904.0.15	250 x 191 x 15 mm	flat	100 pcs
4904.0.20	250 x 191 x 20 mm	flat	100 pcs
4904.1.20	250 x 191 x 20 mm	profile 1:1	100 pcs
4906.0.20	267 x 216 x 20 mm	flat	100 pcs
4906.1.30	267 x 216 x 30 mm	profile 1:1	100 pcs
4910.0.15	420 x 220 x 15 mm	flat	100 pcs
4910.1.20	420 x 220 x 20 mm	profile 1:1	100 pcs
4911.0.20	400 x 300 x 20 mm	flat	80 pcs
4911.1.30	400 x 300 x 30 mm	profile 1:1	50 pcs
4913.1.20	300 x 300 x 20 mm	profile 1:1	100 pcs
4914.1.20	330 x 180 x 20 mm	profile 1:1	100 pcs
4915.1.20	380 x 320 x 20 mm	profile 1:1	100 pcs
4916.1.20	393 x 300 x 20 mm	profile 1:1	100 pcs
4918.1.20	490 x 460 x 20 mm	profile 1:1	50 pcs

Part Nr.	Sizes	Profil	Qty. p. box
Foams for Tote Boxes			
4930.1.32	253 x 153 x 20 mm	profile 1:1	100 pcs
4920.0.32	253 x 153 x 20 mm	flat	100 pcs
4930.1.43	353 x 253 x 20 mm	profile 1:1	100 pcs
4920.0.43	353 x 253 x 20 mm	flat	100 pcs
4930.1.64	553 x 353 x 20 mm	profile 1:1	50 pcs
4920.0.64	553 x 353 x 20 mm	flat	50 pcs

POLYETHYLENE FOAMS



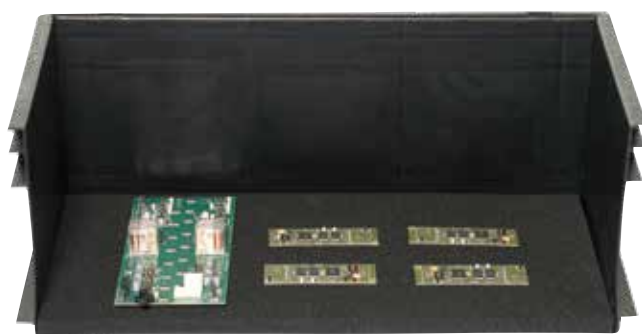
application example

- PE foam
- Permanent, static dissipative, carbon loaded foam
- Cross linked, closed cell
- Abrasion resistant, non-corrosive
- **Hard**
- For tote boxes
- Separators
- Colour: Black

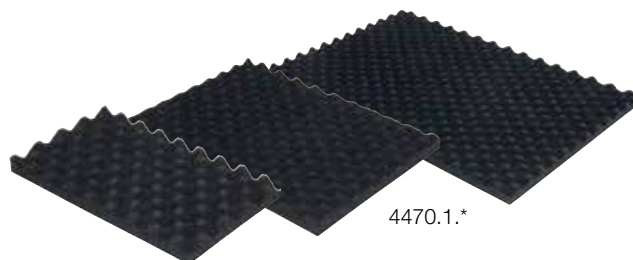
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Part Nr.	Sizes
Foams for tote boxes	
4550.06.0253	253 x 353 x 6 mm
4550.06.0300	300 x 300 x 6 mm
4550.06.0353	353 x 553 x 6 mm
4550.10.0253	253 x 353 x 10 mm
4550.10.0353	353 x 553 x 10 mm
Sheets	
4550.03.1000	1000 x 1000 x 3 mm
4550.03.1500	1000 x 1500 x 3 mm
4550.06.1000	1000 x 1000 x 6 mm
4550.06.1500	1000 x 1500 x 6 mm
4550.10.1000	1000 x 1000 x 10 mm
4550.10.1500	1000 x 1500 x 10 mm

POLYURETHANE FOAMS



application example



- PU foam
- Conductive, carbon loaded foam
- Open cell
- **Soft**
- Colour: Black

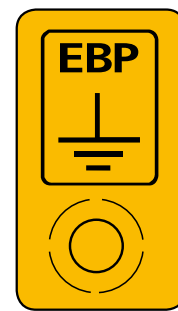
IEC
EN

Part Nr.	Sizes	Profile	Quantity
4450.W	253 x 353 x 6 mm	flat	50 pcs
4451.W	553 x 353 x 6 mm	flat	50 pcs
4454.W	253 x 353 x 10 mm	flat	50 pcs
4455.W	553 x 353 x 10 mm	flat	50 pcs
4456.W	253 x 353 x 15 mm	flat	20 pcs
4457.W	553 x 353 x 15 mm	flat	20 pcs
4470.1.32	253 x 153 x 20 mm	profile 1:1	20 pcs
4470.1.43	353 x 253 x 20 mm	profile 1:1	20 pcs
4470.1.64	553 x 353 x 20 mm	profile 1:1	20 pcs

NEW



①



②



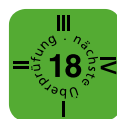
⑥



③



④



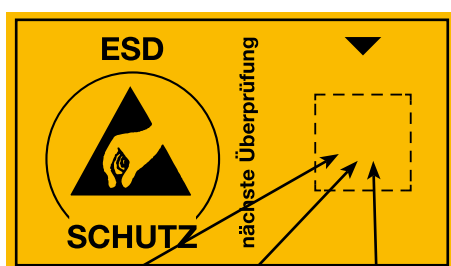
⑦



⑧



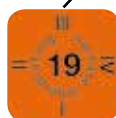
⑨



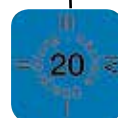
⑤



⑦



⑧



⑨



⑩

• Self-adhesive PVC warning labels, illustrated in original size

Part Nr.	Sizes	Quantity
① 2850.4090.DE	40 x 90 mm	100 pcs
② 2850.2040	20 x 40 mm	30 pcs / sheet
③ 2850.3025	30 x 25 mm	50 pcs / sheet
④ 2850.3030.R	30 x 30 mm	30 pcs / sheet
⑤ 2850.6035.D	60 x 35 mm	30 pcs / sheet
⑤ 2850.6035.E	60 x 35 mm	30 pcs / sheet
⑥ 2850.B.4090	40 x 90 mm	15 pcs / sheet
⑦ 2850.6035.18.D	15 x 15 mm	30 pcs / sheet
⑦ 2850.6035.18.E	15 x 15 mm	30 pcs / sheet
⑧ 2850.6035.19.D	15 x 15 mm	30 pcs / sheet
⑧ 2850.6035.19.E	15 x 15 mm	30 pcs / sheet
⑨ 2850.6035.20.D	15 x 15 mm	30 pcs / sheet
⑨ 2850.6035.20.E	15 x 15 mm	30 pcs / sheet
⑩ 2850.10	Ø 10 mm	250 pcs / sheet

(D = German, DE = German/English, E = English)





⑪



⑫



⑬

- Self adhesive, PVC

⑫ ⑬ Available also as plastic label

- 5 mm thickness
- double-sided

Part Nr.	Sizes	Quantity
PVC		
⑪ 2850.300500.R.DE	300 x 500 mm	1 pcs
⑪ 2850.150300.R.DE	150 x 300 mm	1 pcs
⑫ 2850.300500.D	300 x 500 mm	1 pcs
⑬ 2850.300500.E	300 x 500 mm	1 pcs
⑫ 2850.150300.D	150 x 300 mm	1 pcs
⑬ 2850.150300.E	150 x 300 mm	1 pcs
Plastic label		
⑫ 2850.300500.KS.D	300 x 500 mm	1 piece
⑬ 2850.300500.KS.E	300 x 500 mm	1 piece

(D = German, DE = German/English, E = English)

FLOOR MARKING LABEL/ ESD TEST POINT



Part Nr.	Sizes	Quantity
2822.1.MP.DE	outer dimension Ø 130 mm inner dimension Ø 70 mm thickness: 300 µ , PVC	10 pcs

FLOOR MARKING STICKERS



Part Nr.	Sizes	Quantity
2822.1.EPA	150 x 75 mm, thickness: 300 µ PVC	10 pcs



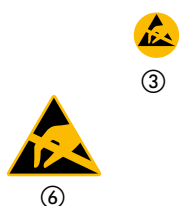
Floor marking tapes
see page 136



①



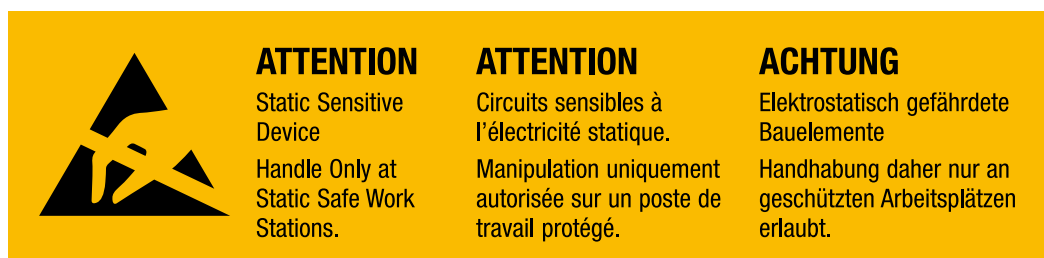
②



⑥



④



⑤

- Self-adhesive, ① – ⑤ paper on roll, ⑥ = PVC
- (D = German, E = English, F = French, DE = German/English, DEF = German/English/French)

Part Nr.	Sizes	Quantity	Core diameter
① 2850.3675.D	36 x 75 mm	1000 pcs per roll	Ø 40 mm
② 2850.3675.E	36 x 75 mm	1000 pcs per roll	Ø 40 mm
③ 2850.6	Ø 6 mm (for boards)	4000 pcs per roll	Ø 76 mm
④ 2850.26105.DE	26 x 105 mm	1000 pcs per roll	Ø 40 mm
⑤ 2850.26138.DEF	26 x 138 mm	1000 pcs per roll	Ø 40 mm
⑥ 2850.12.5	side length: 12,5 mm	1000 pcs per roll	Ø 76 mm

SECURITY SEAL



sample application

- Special Security PE seal which breaks apart on removal
- Self-adhesive
- Two languages „German/English“
- Core diameter 40 mm

Part Nr.	Sizes	Quantity
2850.SEC	26 x 105 mm	1000 pcs per roll



PAPER TAPE



- Environment friendly
- Biodegradable
- For manual and automatic tape dispensers
- Low charge surface
- Core diameter: 76 mm

Part Nr.	Width	Length	Quantity
2800.T.3866.DE	38 mm	66 m	48 rolls per box
2800.T.5066.DE	50 mm	66 m	36 rolls per box

TAPE DISPENSER



- Made of metal
- Tape width up to 50 mm
- Core diameter: 76 mm
- Dissipative black paint finish
- ESD symbol

Part Nr.	Dimensions
2890.A.50	225 x 63 x 95 mm (W x D x H)

TAPE DISPENSER



- Made of ABS
- Tape width up to 25 mm
- Core diameter: 76 mm
- Permanent conductive, carbon loaded
- Incl. 10 mm snap as Earth Bonding Point (EBP)
- ESD symbol

Part Nr.	Dimensions
2890.A.25	215 x 110 x 85 mm (W x D x H)

IDP-STAT®
PVC ADHESIVE TAPE

- Permanent, static dissipative surface
- ESD symbol
- Core diameter: 76 mm
- Low charging

Part Nr.	Width	Length	Quantity
2820.5066.IDP	50 mm	66 m	36 rolls per box

PVC ADHESIVE TAPE



- PVC tape
- Permanent, static dissipative surface
- Low charging
- Colour: yellow with ESD symbol
- Core diameter: 76 mm

Part Nr.	Width	Length
2820.12733.Y	12,7 mm	33 m
2820.25433.Y	25,4 mm	33 m

WARNING ADHESIVE TAPE



- Static dissipative Cellophane, transparent
- Printed with red stripes
- Low charging
- ESD Symbol
- Used for marking rejected items
- Core diameter: 76 mm

Part Nr.	Width	Length	Quantity
2820.1966	19 mm	66 m	8 rolls

POLYIMIDE MASKING TAPE



The Polyimide masking tape has a high heat resistance and is used mainly as masking tape for PCB soldering processes.

- Heat resistance: 230° C
- Very good chemical resistance
- Low charging property
- Backing: insulative
- Core diameter: 76 mm

Part Nr.	Width	Length
2823.1033.HR	10 mm	33 m
2823.2033.HR	20 mm	33 m
2823.2533.HR	25 mm	33 m

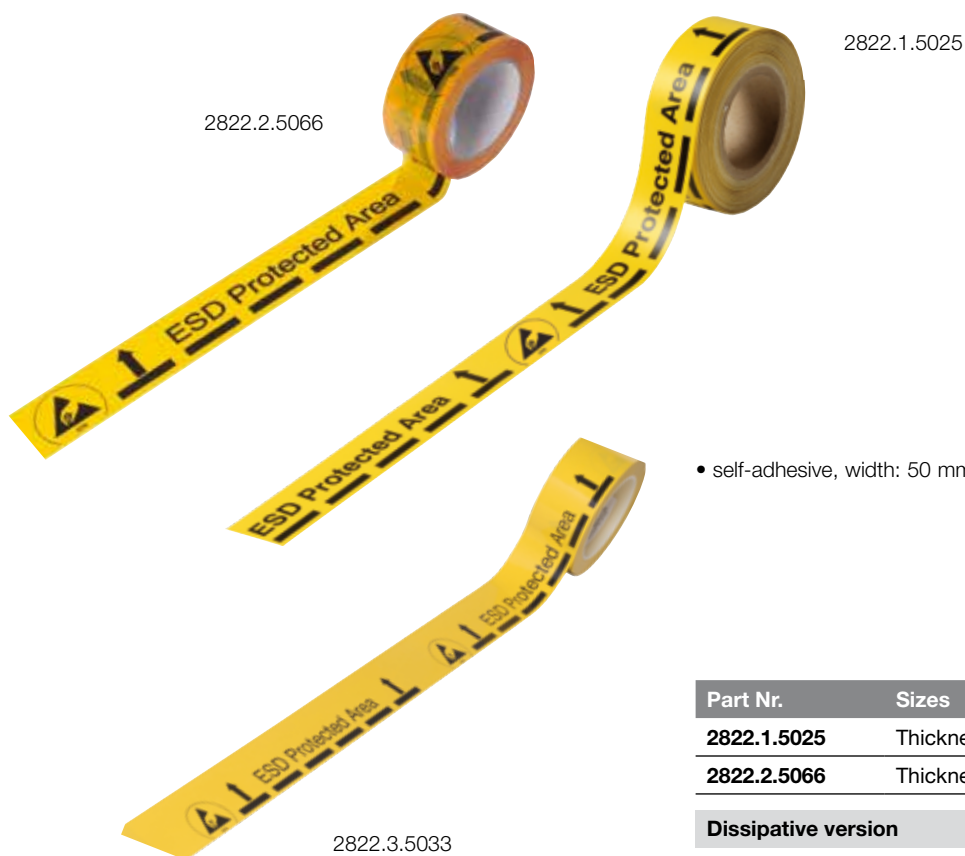
ADHESIVE GRID TAPE



- Material: Polypropylene
- Low charging
- ESD Symbol
- Core diameter: 76 mm

Part Nr.	Width	Length	Quantity
2820.3462.12	12 mm	36 m	24 rolls
2820.3462.18	18 mm	36 m	18 rolls
2820.3462.24	24 mm	36 m	12 rolls
2820.3462.48	48 mm	36 m	6 rolls

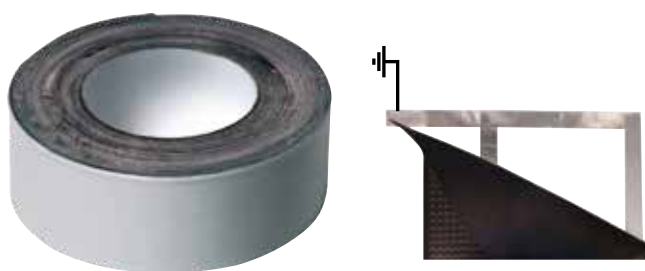
FLOOR MARKING TAPES



- self-adhesive, width: 50 mm

Part Nr.	Sizes	Quantity
2822.1.5025	Thickness: 300 μ , PVC	25 m per roll
2822.2.5066	Thickness: 70 μ , PP	66 m per roll
Dissipative version		
2822.3.5033	Thickness: 140 μ , PVC	33 m per roll

ALUMINIUM TAPE



sample application

- Self-adhesive aluminium tape can be used for grounding the conductive back of floor mats instead of using a snap system

Part Nr.	Width	Length
2821.AL.50	50 mm	50 m

ADHESIVE TAPE TRANSPARENT



- Cellulose Tape
- Transparent
- Low charging
- Core diameter: 76 mm

Part Nr.	Width	Length
2820.CT.25	25 mm	50 m



With this high-quality banner system you can build a flexible and closed barrier of EPAs.

- Double-sided conductive vinyl
- Robust and washable
- Holm length (cross connection): 1340 mm
- Banner: (L x H) 1220 x 840 mm
- Outer side with printed EPA symbol
- Number of fields selectable
- Various options possible
- Easy installation with 2 steel posts (Part Nr.: 1801.G.P.B or 1801.G.P.Y)

Part Nr.

1801.B.V

EPA-Barrier incl. 2 cassettes with metal bars without fuse pin

EPA RETRACTABLE BELT BARRIER



1801.G.P.B

1801.G.P.Y

on request

The patented retractable belt barrier is designed for cordoning off an EPA easily and safely.

Belt barrier post without belt head

- Powder coated steel post
- Colour: black or yellow
- Plastic coated steel base
- Post height: 960mm
- Base diameter: 350mm
- Weight: 10 kg

Part Nr.	Steel post	Steel base
1801.G.P.B	Black	Yellow
1801.G.P.Y	Yellow	Black

SIGN HOLDER, DIN A4



- For belt barrier posts
- Black, metal frame, accepts the range of described posts
- Includes a dissipative, transparent polycarbonate DIN A4 window
- (The warning sign in the picture is for illustration only)

Part Nr.

1801.G.P.SA4

Sign Holder, DIN A4

BELT HEAD

- With integrated rewind brake (patented)

Due to a special technology the released strap will be pulled back slowly and safely into the belt head



- Replaceable belt head with tension control
- 2,3 m or 3,6 m length
- Yellow Polyester belt, 50 mm width
- With double-sided black print „ESD PROTECTED AREA - ESD GESCHÜTZTER BEREICH“
- Includes a safety clip against unauthorized detaching (Special „Panic“ model available on request)

Part Nr.	Belt length	recommended expansion
1801.G.K.23.DE	2,3 m	2,0 m
1801.G.K.23.E	2,3 m	2,0 m
1801.G.K.36.DE	3,6 m	3,5 m
1801.G.K.36.E	3,6 m	3,5 m
1801.G.K.0	Dummy	

(DE = German/English, E = English)

WALL MOUNTED RETRACTABLE BELT HEAD



- Black, powder coated steel head
- 2,3 m or 3,6 m length
- Yellow polyester belt, 50 mm width
- incl. wall mounting clip
- With double-sided black print „ESD PROTECTED AREA – ESD GESCHÜTZTER BEREICH“

Part Nr.

1801.G.W23.DE Belt length 2,3 m

1801.G.W23.E Belt length 2,3 m

1801.G.W36.DE Belt length 3,6 m

1801.G.W36.E Belt length 3,6 m

1801.G.WC Wall receiving end (not shown)

(DE = German/English, E = English)

RING BINDERS



A4 Ring Binders

- Permanent, static dissipative cardboard
- Spine label for easy identification of contents
- Reinforced edges provide added durability
- Colour: Black
- ESD symbol

Part Nr.	Sizes
5800.846	Back width 45 mm / 4 rings
5800.847	Back width 68 mm / 4 rings
5800.848	Back width 68 mm / 2 rings

LEVER ARCH FILE



Lever Arch File A4

- Permanent, static conductive cardboard
- Spine label for easy identification of contents
- Metal finger pull lining
- Reinforced edges provide added durability
- Colour: Black
- ESD symbol

Part Nr.	Sizes
5800.850	74 mm spine width / 2 rings

TRAY



backside

DIN A4 Tray

- Volume conductive material
- Stackable
- ESD symbol

Part Nr.	Size
5150.841	260 x 350 x 55 mm (W x D x H)

CLIPBOARD



- Static dissipative clipboard size A4
- Aluminium
- Spring loaded clip

Part Nr.	Sizes
5600.500.A4	230 x 320 x 1,0 mm

IDP-STAT® RING BINDERS A4



- Dissipative ring binders for A4 documents
- Cardboard with PVC film
- Outside and inside with IDP-STAT® static dissipative film
- Pocket Front – and Spine side
- Size: lid (H x W) 315 x 265 mm
- Colour: yellow or black
- ESD symbol

Part Nr.	Sizes	Colour
5710.RB.Y	Back width 45 mm / 4 rings	Yellow
5710.RB.B	Back width 45 mm / 4 rings	Black

IDP-STAT® CLIPBOARD WITH COVER A4



- Static dissipative clipboard size A4 documents
- Cardboard with PVC film
- Outside and inside with IDP-STAT® electrostatic dissipative film
- Spine provided for pen
- Wire clamp
- ESD symbol

Part Nr.	Sizes	Colour
5710.CB.Y	245 x 315 mm (W x H)	Yellow
5710.CB.B	245 x 315 mm (W x H)	Black

IDP-STAT® MOUSEPAD



- Dissipative Mousepad
- Cardboard with PVC film
- Outside with IDP-STAT® static dissipative film

Part Nr.	Sizes	Colour
5710.MP.B	225 x 185 mm	Black

5600.150.M.CL



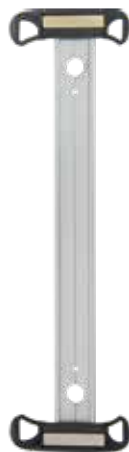
Mounting on aluminium profile



Easyload, top and right side open



Wall mounting



5600.150.M.WH



5600.150.M

Wall mounted, metal framed, document holding system (Easy load)

- Two open sides
- Aluminium frame for wall mounting
- Magnetic surface to fix 10 document holders (+ fixing clamp)

Part Nr.	
5600.150.M	Wall mounting frame with 10 document holders, incl. fixing clamp
5600.150.M.WH	Wall mounting frame (magnetic), separat, without fixing clamp
5600.150.M.CL	Fixing clamp, Unit = 2 pcs

TARIFOLD IDP-STAT®
WALL MOUNTING FRAME



Wall mounted, metal framed, document holding system

- Open top
- Stainless steel
- For 10 document holders

Part Nr.	
5600.100	Set with 10 document holders
5600.100.1	Wall mounting frame only



TARIFOLD IDP-STAT® DIN A4 DOCUMENT HOLDERS



Accessories for wall mounting frame.

- IDP-STAT® film
- Permanent, static dissipative IDP film
- Colour: Transparent
- Frame: Black
- ESD symbol

IEC
EN

Part Nr.	Qty.
5600.324	1 box = 10 pieces (Standard), open top
5600.326.EL	1 box = 10 pieces (Easy Load)

TARIFOLD IDP-STAT® STAINLESS STEEL BENCHTOP FRAME



Part Nr.	
5600.101	With 10 document holders (Standard)

TARIFOLD IDP-STAT® DIN A4 DOCUMENT HOLDERS



- IDP-STAT® film
- Permanent, static dissipative IDP film
- Colour: Transparent
- Frame: Black
- ESD symbol

IEC
EN

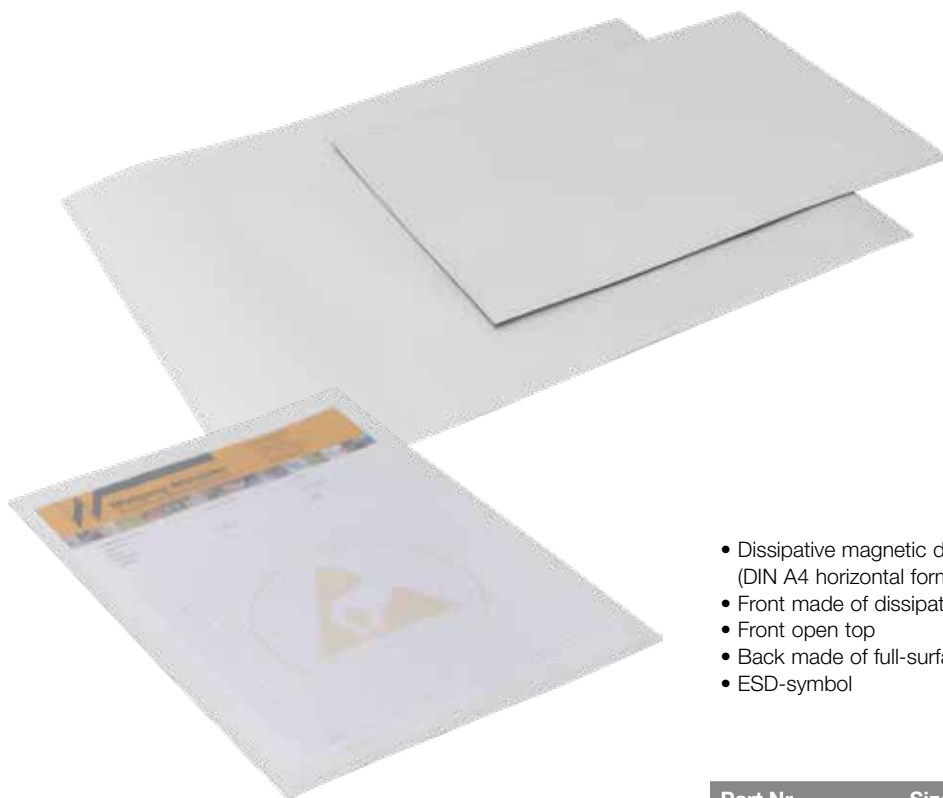
Part Nr.	Qty.
5600.325	1 box = 10 pieces

TARIFOLD IDP-STAT® SWIVEL ARM



- Ergonomic and space-saving design
- With built-in spring mechanism
- Mounting clamp, span up to 63 mm

Part Nr.	
5600.450.S	For Part Nr. 5600.100



- Dissipative magnetic document holder (DIN A4 horizontal format / DIN A3 horizontal format)
- Front made of dissipative IDP-STAT® film
- Front open top
- Back made of full-surface magnetic film
- ESD-symbol

Part Nr.	Sizes	Qty.
3016.MDT.A4	330 x 230 mm	1 pcs
3016.MDT.A3	430 x 330 mm	1 pcs

IDP-STAT®
PVC DESK MAT



- Dissipative, upwards foldable desk mat
- Contact face/surface made of dissipative IDP-STAT® film
- Back made of foam sheet
- Includes a 10 mm snap fastener
- Size: 600 x 400 mm
- ESD symbol

Part Nr.	
5710.SM.Y	Desk mat

ESD UTILITY BAG



- Dissipative bag with 2 handles
- Electrostatic dissipative polyester fabric
- Zipper

Part Nr.	Sizes (L x B x H)
8781.T.H	220 x 100 x 100 mm

LAMINATION POUCHES

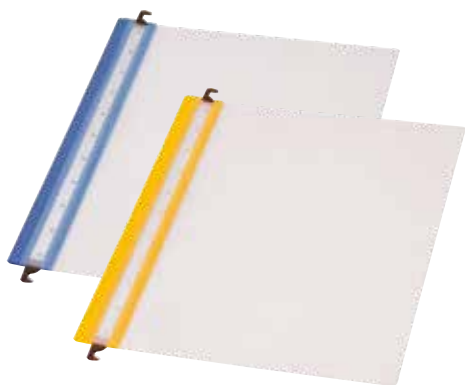
**Lamination pouches**

- Dissipative lamination pouches
- Colour: transparent (polyester)
- Recyclable
- Transparent version: with ESD symbol
- Thickness: 2 x 100 µm
- Without ESD symbol

IEC
EN

Part Nr.	Size	Quantity
5720.LF.T.A4	DIN A4 (transp.)	50 pcs
5720.LF.T.A3	DIN A3 (transp.)	50 pcs

IDP-STAT® HANGING FOLDER

**DIN A4 hanging folder**

- Permanent, static dissipative PVC binder
- Made of Inherently Dissipative Polymer
- Recyclable
- Standard print: ESD Symbol, Recycling Symbol and LOT Nr.

IEC
EN

Part Nr.	Size	Colour	Quantity
5710.A4.H	DIN A4	blue/transparent	25 pcs
5710.A4.H.Y	DIN A4	yellow/transparent	25 pcs

IDP-STAT® CLEAR BINDER



- **Permanent, static dissipative** PVC binder
- Made of inherently Dissipative Polymer
- Recyclable
- Standard print: ESD Symbol, Recycling Symbol and LOT Nr.

IEC
EN

Part Nr.	Size	Colour	Quantity
5710.A4.1	DIN A4	blue/transparent	25 pcs
5710.A4.Y	DIN A4	yellow/transparent	25 pcs

IDP-STAT® CLIP BINDER

**DIN A4 clip binder**

- **Permanent** static dissipative PVC
- Made of inherently dissipative Polymer
- Transparent
- Standard print: ESD symbol, recycling symbol and LOT Nr.
- Recyclable

IEC
EN

Part Nr.	Size	Colour	Quantity
5710.A4.K.T	DIN A4	transparent	25 pcs

IDP-STAT® DOCUMENT HOLDERS



- **Permanent** static dissipative IDP Film
- Material: Polypropylene
- Embossed (made of 90 µm film)
- Recyclable
- Standard print: ESD symbol, recycling symbol and LOT No.

IEC
EN

Part Nr.	Size	Quantity
3017.319.IDP	DIN A4, 0,09 mm open top, multi punched, for use in ring binders, transparent	100 pcs
3017.322.IDP	DIN A3, 0,09 mm open top, multi punched, for use in ring binders, transparent	50 pcs

IDP-STAT® DOCUMENT HOLDERS



DIN A4 document holder

- **Permanent** static dissipative IDP Film
- Made of inherently dissipative Polymer (IDP)
- Embossed (made of 90 µm film)
- Colour: Transparent (embossed surface)
- Standard print: ESD-Logo, recycling symbol and LOT No.
- Recyclable

IEC
EN

Part Nr.	Size	Quantity
3017.321.IDP.PP	DIN A4, 0,09 mm 2 open sides	100 pcs

IDP-STAT® DOCUMENT HOLDERS



DIN A4 Document holders

- **Permanent** static dissipative PVC
- Made of inherently dissipative Polymer
- Transparent
- Standard print: ESD symbol, recycling symbol and LOT Nr.
- Recyclable

IEC
EN

Part Nr.	Size	Quantity
3015.321.IDP.150	DIN A4, 0,15 mm 2 open sides	100 pcs
3015.321.IDP.250	DIN A4, 0,25 mm 2 open sides	100 pcs

IDP-STAT® DOCUMENT HOLDERS FOR DISPLAYS



sample application

- **Permanent** static dissipative PVC
- For displays on workstations and ring binders (multiple benefits)
- Made of inherently dissipative Polymer
- Transparent
- Standard print: ESD symbol, recycling symbol and LOT Nr.
- Recyclable

IEC
EN

Part Nr.	Size	Quantity
3015.KH.IDP	DIN A4, 0,25 mm open top, multi punched, for use in ring binders or document displays	100 pcs



PERMASTAT® DOCUMENT HOLDERS ♦

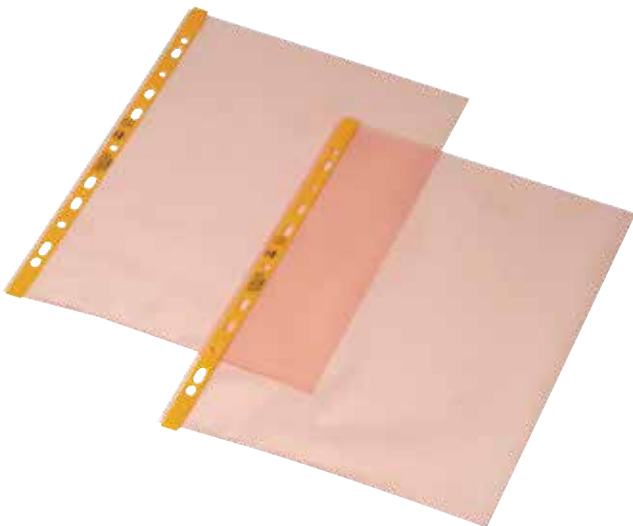


- Static dissipative Polyethylene film
- Recyclable
- Standard print: ESD symbol, Recycling symbol, LOT Nr.

IEC
EN

Part Nr.	Size	Quantity
3115.321	DIN A4, 0,1 mm 2 open sides	100 pcs

PERMASTAT® DOCUMENT HOLDERS ♦



- Static dissipative Polyethylene film
- Recyclable
- Standard print: ESD symbol, Recycling symbol, LOT Nr.

IEC
EN

Part Nr.	Size	Quantity
3115.320	DIN A4, 0,1 mm open top, multi punched, for use in ring binders	100 pcs

PERMASTAT® DOCUMENT HOLDERS ♦



- Static dissipative Polyethylene film
- Recyclable
- Standard print: ESD symbol, Recycling symbol, LOT Nr.

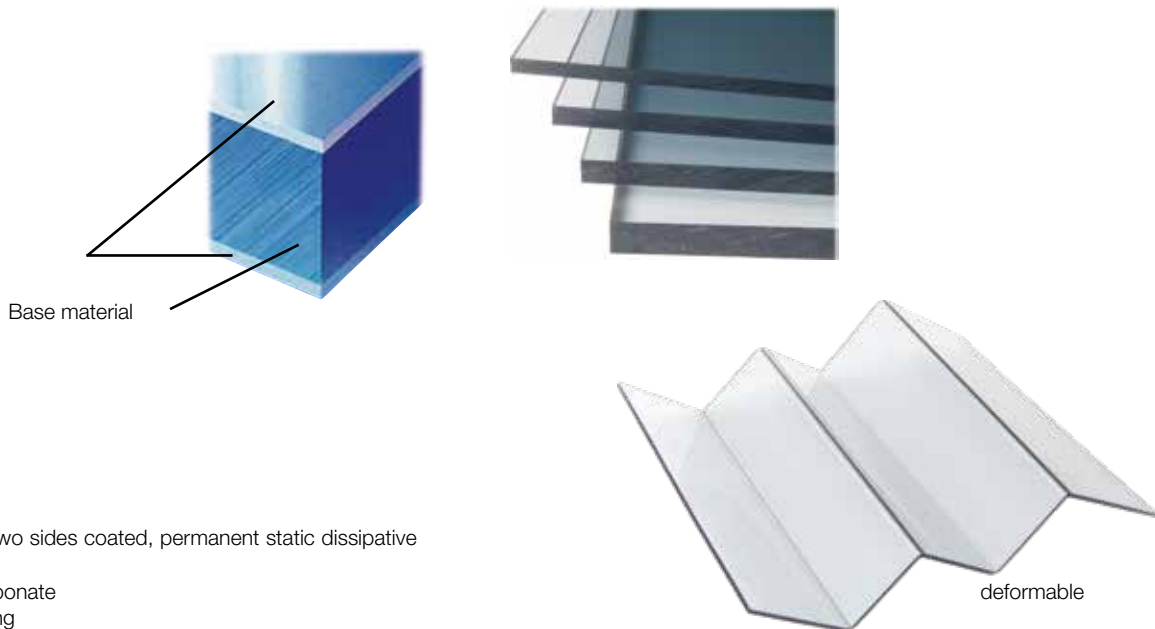
IEC
EN

Part Nr.	Size	Quantity
3115.319	DIN A4, 0,1 mm clear, transparent, open top multi punched, for use in ring binders	100 pcs



Typical application

Static dissipative surfaces



DPC- 300 plates, two sides coated, permanent static dissipative

- Material: Polycarbonate
- Dissipative Coating
- Transparent
- High impact strength
- Good mechanic workability
- Deformable
- Cleanroom compatible
- Transparent release film for protection

Typical Applications:

- Machine covers
- Conveyor covers
- Cleanroom partitions
- Protection hoods



Custom sizes and other thickness available on request.

Part Nr.	Standard Thickness	Standard Size	Quantity
5233.DPC300.3	3 mm	2000 x 1000 mm	6 plates
5233.DPC300.4	4 mm	2000 x 1000 mm	5 plates
5233.DPC300.5	5 mm	2000 x 1000 mm	4 plates
5233.DPC300.6	6 mm	2000 x 1000 mm	3 plates
5233.DPC300.8	8 mm	2000 x 1000 mm	2 plates
5233.DPC300.10	10 mm	2000 x 1000 mm	1 plate

DPF-100 POLYESTER FILM



DPF-100 is a transparent static dissipative Polyester film, 2 sides coated.

- Dissipative Polyester film
- Abrasion resistant
- Thickness: 0,1 mm
- Can be used as transparencies for copies

Part Nr.	Size	Quantity
5235.DPF.100	1220 mm x 100 m	1 roll
5235.DPF.100.A4	DIN A4	100 pcs
5235.DPF.100.Z	Custom size on request	

DPF-SK 100 SELF-ADHESIVE POLYESTER FILM



DPF SK 100 is a transparent static dissipative, self-adhesive Polyester film. It includes a special coating on one side and a release film on the other side. It can be applied on flat, insulative surfaces.

- Dissipative Polyester film
- Self-adhesive
- Abrasion resistant
- Thickness: 0,1 mm

Part Nr.	Size	Quantity
5235.DPF.SK100	1220 mm x 100 m	1 roll
5235.DPF.SK100.A4	DIN A4	100 pcs
5235.DPF.SK100.Z	Custom size on request	



Boxes with soft conductive foam available on request.



application example

- Permanent, carbon loaded, conductive material
- Include a dissipative PE foam insert (Typ 4550.*)
- Lid printed with ESD symbol

IEC
EN

Part Nr.	Sizes	Foam thickness	Quantity
① 5100.860	55 x 38 x 14 mm	6 mm	100 pcs
② 5100.861	70 x 45 x 14 mm	8 mm	100 pcs
③ 5100.862	130 x 32 x 14 mm	8 mm	100 pcs
④ 5100.864	77 x 55 x 12 mm	6 mm	100 pcs
⑤ 5100.865	117 x 90 x 21 mm	14 mm	50 pcs
⑥ 5100.866	138 x 44 x 14 mm	8 mm	100 pcs



HINGED LID BOXES

CARBON



5351.1308.014



5351.1308.030



5351.1308.050



5351.1814.080



5351.2212.060

- Permanent carbon loaded conductive
- Cover and box in one piece
- Hinge and snap closure

IEC
EN

Part Nr.	Inner sizes
5351.1308.014	130 x 80 x 14 mm
5351.1308.030	130 x 80 x 30 mm
5351.1308.050	130 x 80 x 50 mm
5351.1814.080	178 x 133 x 78 mm
5351.2212.060	221 x 121 x 55 mm

SMD BOXES CARBON



- Permanent carbon loaded conductive
- Tray compatible size combination
- Spring loaded lid
- Suitable for compartmented box Part Nr. 5150.810 (see page 152)

IEC
EN

Part Nr.	Inner sizes	Quantity
5100.873	16 x 12 x 15 mm small	100 pcs
5100.874	37 x 12 x 15 mm medium	50 pcs
5100.875	40 x 37 x 15 mm big	25 pcs
5100.876	68 x 57 x 15 mm big	10 pcs

SMD BOXES CARBON



- Black with transparent metallized lid
- Permanent carbon loaded conductive
- Tray compatible size combination
- Spring loaded lid
- Suitable for compartmented box Part Nr. 5150.810 (see page 152)

IEC
EN

Part Nr.	Inner sizes	Quantity
5100.880	16 x 12 x 15 mm small	100 pcs
5100.881	37 x 12 x 15 mm medium	50 pcs
5100.882	40 x 37 x 15 mm big	25 pcs
5100.883	68 x 57 x 15 mm big	10 pcs

SMD BOXES IDP



- Permanent dissipative IDP material
- Tray compatible size combination
- Spring loaded lid
- Suitable for compartmented box Part Nr. 5150.810 (see page 152)

IEC
EN

Part Nr.	Inner sizes	Quantity
5101.Y.873	16 x 12 x 15 mm small	100 pcs
5101.Y.874	37 x 12 x 15 mm medium	50 pcs
5101.Y.875	40 x 37 x 15 mm big	25 pcs
5101.Y.876	68 x 57 x 15 mm big	10 pcs

SMD BOXES IDP



- Yellow with transparent metallized lid
- Permanent dissipative IDP material
- Tray compatible size combination
- Spring loaded lid
- Suitable for compartmented box Part Nr. 5150.810 (see page 152)

IEC
EN

Part Nr.	Inner sizes	Quantity
5101.Y.880	16 x 12 x 15 mm small	100 pcs
5101.Y.881	37 x 12 x 15 mm medium	50 pcs
5101.Y.882	40 x 37 x 15 mm big	25 pcs
5101.Y.883	68 x 57 x 15 mm big	10 pcs

COMPARTMENTED BOXES



- Permanent, carbon loaded, conductive material
- 6 compartments
- Stackable

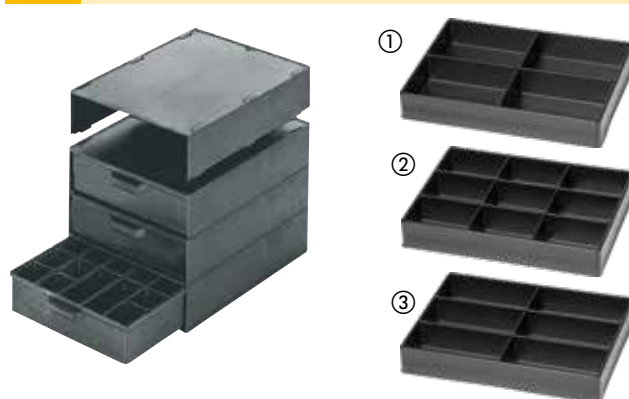
IEC
EN

Part Nr.	Outer Dimensions
5150.830	273 x 265 x 187 mm (W x D x H) 6 compartments drawer dimensions: 261 x 238 x 20 mm

830 box compartment layout - permanent conductive, black

Part Nr.	Inner Dimension	Compartments
① 5150.830.A	61 x 56 mm	16
② 5150.830.B	62 x 36 mm	18
③ 5150.830.C	34 x 36 mm	42

COMPARTMENTED BOXES



- Permanent, carbon loaded, conductive material
- 4 compartments
- Stackable

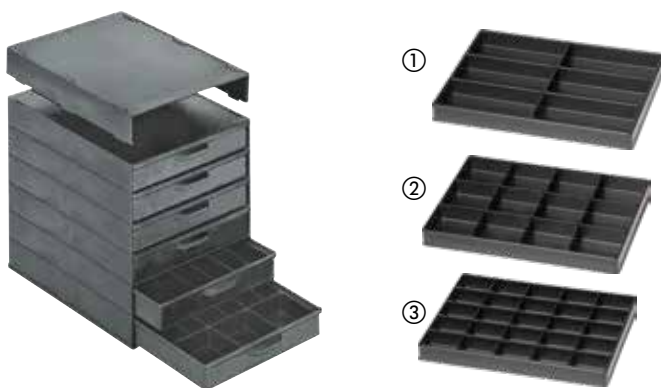
IEC
EN

Part Nr.	Outer Dimensions
5150.815	266 x 365 x 305 mm (W x D x H) 4 compartments drawer dimensions: 250 x 340 x 62 mm

815 box compartment layout - permanent conductive, black

Part Nr.	Inner Dimension	Compartments
① 5150.815.A	116 x 160 mm	4
② 5150.815.B	75 x 105 mm	9
③ 5150.815.C	75 x 160 mm	6

COMPARTMENTED BOXES



- Permanent, carbon loaded, conductive material
- 6 compartments
- Stackable

IEC
EN

Part Nr.	Outer Dimensions
5150.831	266 x 365 x 305 mm (W x D x H) 6 compartments drawer dimensions: 250 x 340 x 40 mm

831 box compartment layout - permanent conductive, black

Part Nr.	Inner Dimension	Compartments
① 5150.831.B	75 x 160 mm	6
② 5150.831.D	77 x 79 mm	12
③ 5150.831.G	45 x 63 mm	25

COMPARTMENTED BOXES

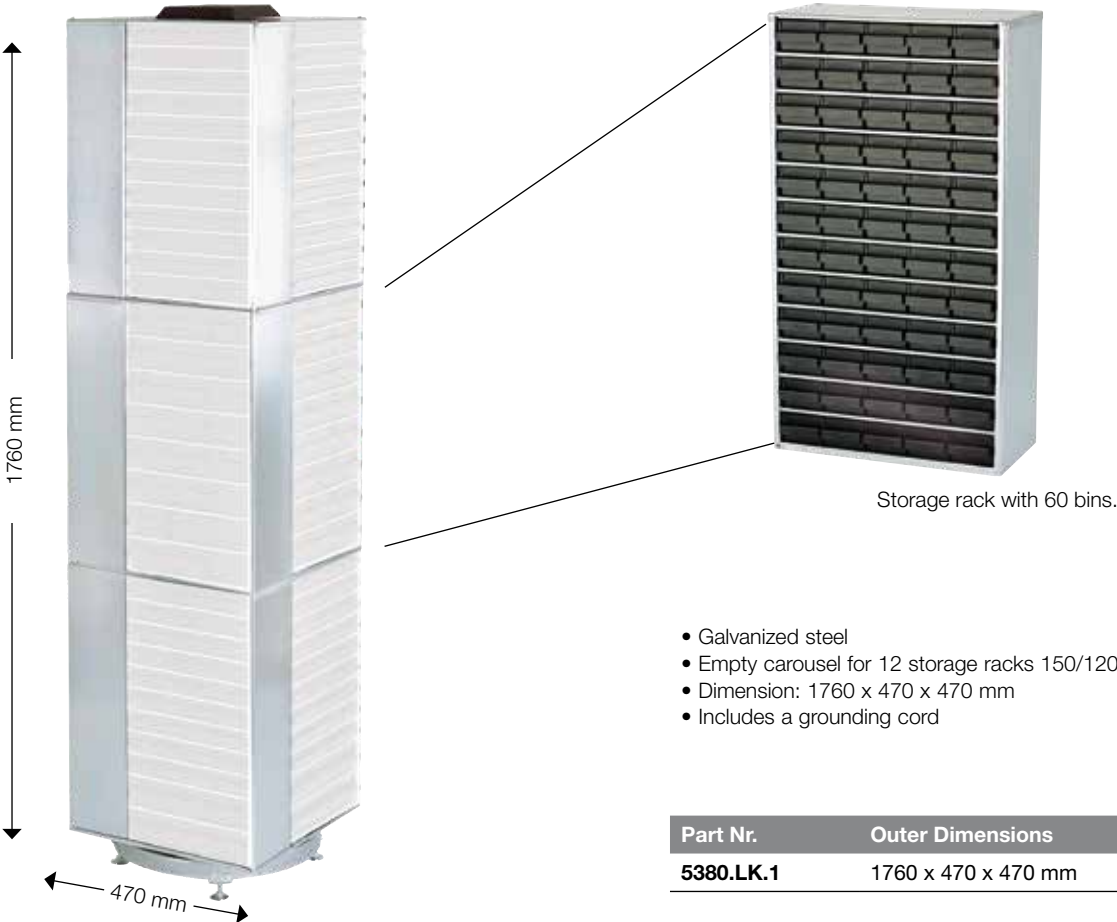


- Permanent, carbon loaded, conductive material
- 6 compartments
- Stackable

IEC
EN

Suitable for the SMD boxes
described on page 151.

Part Nr.	Outer Dimensions
5150.810	265 x 355 x 205 mm (W x D x H) 6 compartments drawer dimensions: 250 x 340 x 22 mm

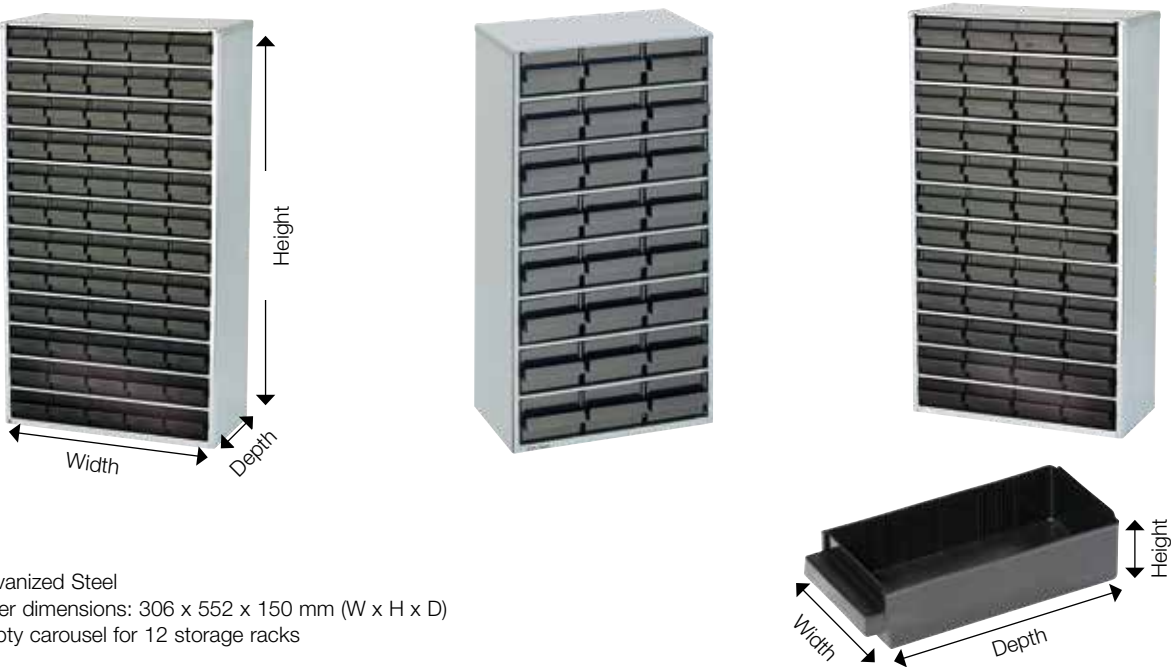


- Galvanized steel
- Empty carousel for 12 storage racks 150/1200 series
- Dimension: 1760 x 470 x 470 mm
- Includes a grounding cord

IEC
EN

Part Nr.	Outer Dimensions
5380.LK.1	1760 x 470 x 470 mm

STORAGE RACKS



- Galvanized Steel
- Outer dimensions: 306 x 552 x 150 mm (W x H x D)
- Empty carousel for 12 storage racks

IEC
EN

Part Nr.	Content	Inner Dimension
5380.LK.1.24	24 bins	85 x 55 x 135 mm (W x H x D)
5380.LK.1.48	48 bins	63 x 35 x 135 mm (W x H x D)
5380.LK.1.60	60 bins	50 x 35 x 135 mm (W x H x D)





②



application example



Back with recessed grip, models with X
with additional rail suspension



③

• with separator

Easy extraction due to rounded corners



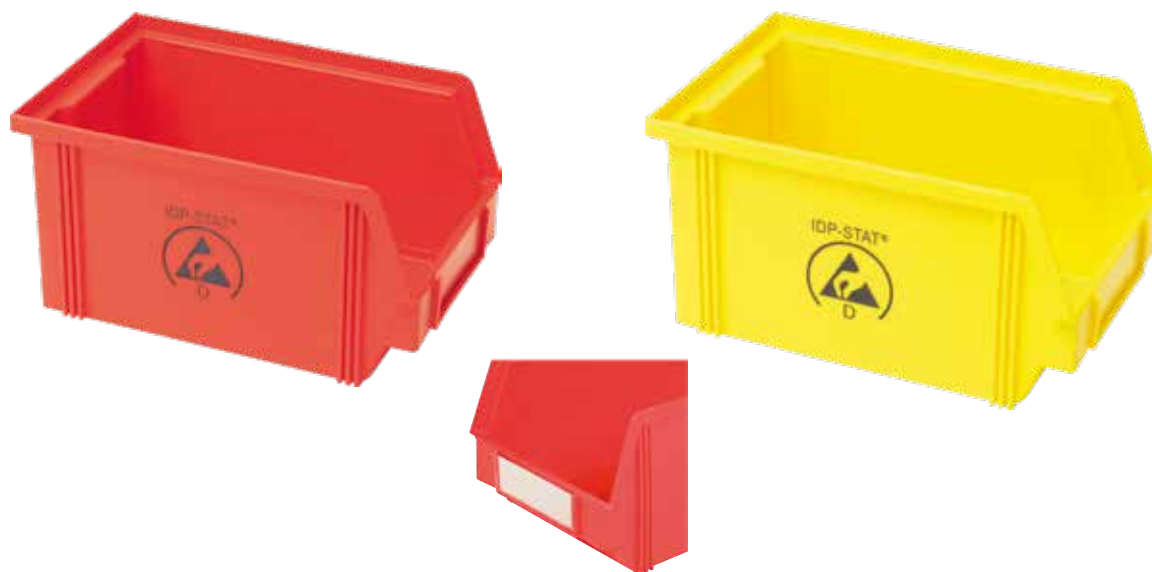
①

• Permanent, carbon loaded, conductive Polypropylene

IEC
EN

Part Nr.	Outer Dim. (D x W x H)	Inner Dim. (D x W x H)	Stacked	pcs per box	rail suspension
① 5320.FA3Z	350 x 200 x 145 mm	280 x 182 x 127 mm	127 mm	12	X
① 5320.FA4	235 x 145 x 125 mm	180 x 127 x 108 mm	108 mm	25	X
① 5320.FA5	175 x 100 x 75 mm	129 x 87 x 67 mm	67 mm	42	X
② 5320.2	500 x 300 x 200 mm	425 x 280 x 183 mm	183 mm	6	–
② 5320.3	350 x 200 x 200 mm	280 x 182 x 185 mm	185 mm	8	–
② 5320.3Z	350 x 200 x 145 mm	280 x 182 x 127 mm	127 mm	12	–
② 5320.4	235 x 145 x 125 mm	180 x 127 x 108 mm	108 mm	27	X
② 5320.5	175 x 100 x 75 mm	129 x 87 x 67 mm	67 mm	40	X
② 5320.6	95 x 100 x 50 mm	60 x 87 x 44 mm	44 mm	50	X
③ 5320.6D	95 x 100 x 50 mm	60 x (2 x 43) x 44 mm	44 mm	50	X

(5320.2 and 5320.3 include a handle).



- Permanent, static dissipative Polypropylene
- Made of Inherently Dissipative Polymer (IDP-STAT®)
- Stackable
- Colour: red, yellow
- With ESD Symbol, Recycling symbol and LOT-No.



Other sizes and colours available on request!

IEC
EN

Part Nr.	Outer Dim. (D x W x H)	Inner Dim. (D x W x H)	Stacked	pcs per box	rail suspension
red					
5321.R.3Z	350 x 200 x 145 mm	280 x 182 x 127 mm	127 mm	12	–
5321.R.4	235 x 145 x 125 mm	180 x 127 x 108 mm	108 mm	27	X
5321.R.5	175 x 100 x 75 mm	129 x 87 x 67 mm	67 mm	40	X
5321.R.6	95 x 100 x 50 mm	60 x 87 x 44 mm	44 mm	50	X
yellow					
5321.Y.3Z	350 x 200 x 145 mm	280 x 182 x 127 mm	127 mm	12	–
5321.Y.4	235 x 145 x 125 mm	180 x 127 x 108 mm	108 mm	27	X
5321.Y.5	175 x 100 x 75 mm	129 x 87 x 67 mm	67 mm	40	X
5321.Y.6	95 x 100 x 50 mm	60 x 87 x 44 mm	44 mm	50	X

Labels for storage bins

Part Nr.	for Part Nr.	Dimensions	Qty.
5320.2.ET	5320.2	82 x 42 mm	100 pcs
5320.3.ET	5320.3	79 x 43 mm	100 pcs
5320.3Z.ET	5320.3Z / 5321.R.3Z / 5321.Y.3Z	79 x 30 mm	100 pcs
5320.4.ET	5320.4 / 5321.R.4 / 5321.Y.4	80 x 29 mm	100 pcs
5320.5.ET	5320.5 / 5321.R.5 / 5321.Y.5	79 x 20 mm	100 pcs
5320.6.ET	5320.6 / 5321.R.6 / 5321.Y.6	79 x 13 mm	100 pcs
5320.FA2.3.ET	5320.FA2 / 5320.FA3	98 x 43 mm	100 pcs
5320.FA3Z.ET	5320.FA3Z	101 x 30 mm	100 pcs
5320.FA4.ET	5320.FA4	74 x 23 mm	100 pcs
5320.FA5.ET	5320.FA5	53 x 15 mm	100 pcs

WEZ BLACKLINE® – CONDUCTIVE

STACKABLE TOTE BOXES, VERSION: FLAT BASE

5351.4304.007.992



5351.3213.007.992



5351.6440.007.992

- Permanent, carbon loaded, conductive Polypropylene
- Stackable
- Pallet modular size
- With ESD Symbol

IEC
EN

Part Nr.	Outer Dim. mm (D x W x H)	Inner Dim. mm (D x W x H)	Stacked mm
5351.2108.007.992	200 x 150 x 100	155 x 106 x 96	83
5351.2113.007.992	200 x 150 x 145	155 x 106 x 142	129
5351.3208.007.992	300 x 200 x 100	254 x 154 x 96	83
5351.3213.007.992	300 x 200 x 145	254 x 154 x 141	128
5351.4304.007.992	400 x 300 x 53	354 x 254 x 49	40
5351.4308.907.992	400 x 300 x 100	354 x 254 x 96	83
5351.4313.907.992	400 x 300 x 145	354 x 254 x 141	128
5351.4320.007.992	400 x 300 x 212	354 x 254 x 208	195
5351.4326.007.992	400 x 300 x 278	354 x 254 x 274	262
5351.4332.007.992	400 x 300 x 320	354 x 254 x 317	303
5351.6404.617.992	600 x 400 x 55	554 x 354 x 41	28
5351.6408.007.992	600 x 400 x 100	554 x 354 x 95	83
5351.6413.007.992	600 x 400 x 145	554 x 354 x 141	128
5351.6420.007.992	600 x 400 x 212	554 x 354 x 208	195
5351.6426.007.992	600 x 400 x 278	554 x 354 x 273	260
5351.6432.007.992	600 x 400 x 320	554 x 354 x 316	303
5351.6440.007.992	600 x 400 x 412	554 x 354 x 407	393

WEZ LID – CONDUCTIVE



5351.XXX.000.992



5351.XXX.044.992



5351.XXX.032.992

- Tote boxes stay stackable even when the lids are fitted

WEZ Lids – loose

- Loose lids without fasteners

WEZ Lid with 4 swing latches

- For simple, secure fixing to tote box

WEZ Hinged lid with 2 swing latches

- For simple, secure fixing to tote box

IEC
EN

Part-Nr.	Dimension mm
WEZ Lids - loose	
5351.3200.000.992	300 x 200
5351.4300.000.992	400 x 300
5351.6400.000.992	600 x 400
WEZ Lid with 4 swing latches	
5351.3200.044.992	300 x 200
5351.4300.044.992	400 x 300
5351.6400.044.992	600 x 400
WEZ Hinged lid with 2 swing latches	
5351.3200.032.992	300 x 200
5351.4300.032.992	400 x 300
5351.6400.032.992	600 x 400



5351.4312.060.992



5351.4317.060.992

- The new WEZ tote box generation for manual and mechanical handling. Suitable for any applications and uses. The new design takes into consideration sophisticated logistical requirements as well as application of current plastic injection technologies.
- Hollow corner design in combination with the upper ribbr-rim-construction offers maximum stability and torsion stiffness.
- Flat bottom with 4-side-chamfer and a tapered roof design, ensures smooth transportation on conveyor belts and other materials handling equipments.
- Integrated vertical label holders on all 4 sides for A4 sized papers.
- Mechanical lifting and moving possible with openings on the upper rim and compatible with standard available equipment.

IEC
EN

Part Nr.	Outer Dim. mm (D x W x H)	Inner Dim. mm (D x W x H)	Stacked mm
5351.4312.060.992	400 x 300 x 120	362 x 262 x 115	104
5351.4317.060.992	400 x 300 x 175	362 x 262 x 170	159
5351.6412.060.992	600 x 400 x 120	562 x 362 x 115	104
5351.6417.060.992	600 x 400 x 175	562 x 362 x 170	159

WEZ BLACKLINE® – CONDUCTIVE
STACKABLE TOTE BOXES, VERSION: FLAT BASE



5351.3204.390.992



5351.3208.397.992



5351.6426.397.992

- Standard version with flat base
- Permanent, carbon loaded, conductive Polypropylene
- Comfortable handle and hinged lid
- 3 standard sizes, in a range of heights
- With ESD Symbol

IEC
EN

Part Nr.	Outer Dim. mm (D x W x H)	Inner Dim. mm (D x W x H)
5351.3204.390.992	300 x 200 x 69	260 x 160 x 39
5351.3208.397.992	300 x 200 x 110	260 x 160 x 95
5351.3213.397.992	300 x 200 x 154	254 x 154 x 139
5351.4304.397.992	400 x 300 x 63	354 x 254 x 58
5351.4308.397.992	400 x 300 x 110	354 x 254 x 95
5351.4313.397.992	400 x 300 x 154	354 x 254 x 139
5351.4320.397.992	400 x 300 x 221	354 x 254 x 206
5351.4326.397.992	400 x 300 x 287	354 x 254 x 272
5351.6408.397.992	600 x 400 x 111	554 x 354 x 95
5351.6413.397.992	600 x 400 x 155	554 x 354 x 139
5351.6420.397.992	600 x 400 x 221	554 x 354 x 206
5351.6426.397.992	600 x 400 x 288	554 x 354 x 272

NEWBOX - TOTE BOXES - CONDUCTIVE

- Permanent, carbon loaded, conductive Polypropylene
- Stackable
- Pallet modular size
- With ESD Symbol
- Closed grip

IEC
EN

Part Nr.	Outer Dimensions mm (W x D x H)	Inner Dimensions mm (W x D x H)	Stacked
5310.05	300 x 200 x 120	270 x 170 x 117	106
5310.10	400 x 300 x 120	355 x 255 x 115	104
5310.14	400 x 300 x 170	355 x 255 x 165	152
5310.20	400 x 300 x 220	355 x 255 x 217	204
5310.25	400 x 300 x 270	355 x 255 x 265	252
5310.31	400 x 300 x 320	355 x 255 x 317	304



See also page 129/130 for foams

IEC
EN

Part Nr.	Outer Dimensions mm (W x D x H)	Inner Dimensions mm (W x D x H)	Stacked
5310.15	600 x 400 x 75	555 x 355 x 70	56
5310.24	600 x 400 x 120	555 x 355 x 115	104
5310.33	600 x 400 x 150	555 x 355 x 145	131
5310.34	600 x 400 x 170	555 x 355 x 165	152
5310.42	600 x 400 x 220	555 x 355 x 215	204
5310.50	600 x 400 x 236	555 x 355 x 231	214
5310.55	600 x 400 x 280	555 x 355 x 275	261
5310.70	600 x 400 x 336	555 x 355 x 332	314
5310.80	600 x 400 x 420	555 x 355 x 415	397

NEWBOX - TOTE BOXES - CONDUCTIVE



- Stacked: 278 mm
- Permanent, carbon loaded, conductive Polypropylene
- Stackable
- Pallet modular size
- With ESD Symbol
- Closed grip
- Steckable onto 600 x 400 and 400 x 300 mm boxes

IEC
EN

Part Nr.	Outer Dimensions mm (W x D x H)	Inner Dimensions mm (W x D x H)	Stacked
5310.S.130	800 x 600 x 320 mm	755 x 555 x 315 mm	278 mm

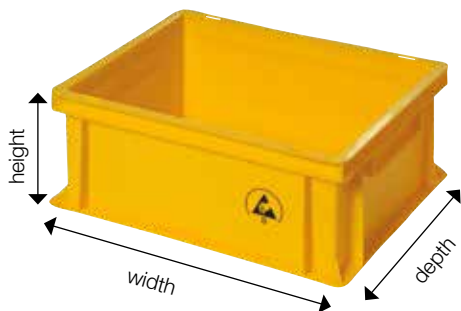


- Permanent, static dissipative Polypropylene
- Made of Inherently Dissipative Polymer (IDP-STAT®)
- Stackable
- Pallet modular size
- With ESD Symbol, Recycling symbol and LOT Nr.
- Closed grip



See also page 129/130 for foams

Other sizes available on request!



IEC
EN



IEC
EN

Part Nr.	Outer Dimensions mm (W x D x H)	Inner Dimensions mm (W x D x H)	Stacked
yellow			
5311.Y.05	300 x 200 x 120	270 x 170 x 117	106
5311.Y.10	400 x 300 x 120	355 x 255 x 115	104
5311.Y.14	400 x 300 x 170	355 x 255 x 165	152
5311.Y.20	400 x 300 x 220	355 x 255 x 217	204
5311.Y.31	400 x 300 x 320	355 x 255 x 317	304
5311.Y.24	600 x 400 x 120	555 x 355 x 115	104
5311.Y.34	600 x 400 x 170	555 x 355 x 165	152
5311.Y.42	600 x 400 x 220	555 x 355 x 215	204

Part Nr.	Outer Dimensions mm (W x D x H)	Inner Dimensions mm (W x D x H)	Stacked
red			
5311.R.05	300 x 200 x 120	270 x 170 x 117	106
5311.R.10	400 x 300 x 120	355 x 255 x 115	104
5311.R.14	400 x 300 x 170	355 x 255 x 165	152
5311.R.20	400 x 300 x 220	355 x 255 x 217	204
5311.R.31	400 x 300 x 320	355 x 255 x 317	304
5311.R.24	600 x 400 x 120	555 x 355 x 115	104
5311.R.34	600 x 400 x 170	555 x 355 x 165	152
5311.R.42	600 x 400 x 220	555 x 355 x 215	204

COLLAPSIBLE BOXES AND TOP COVER



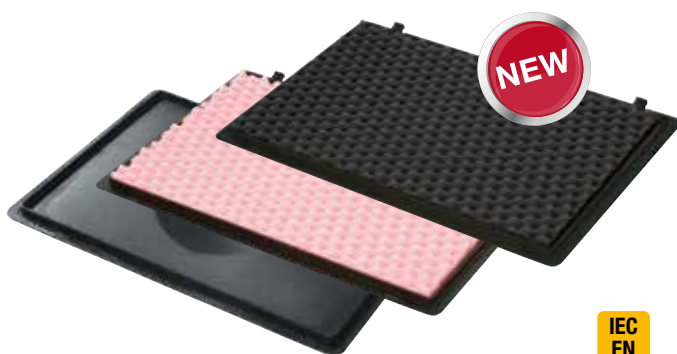
- Permanent, carbon loaded, conductive Polypropylene
- Foldable
- Side walls closed
- Height folded: about 70 mm
- 68 % space saving when folded
- With ESD Symbol

NEW

Part Nr.	Outer Dim. (W x D x H)	Inner Dim. (W x D x H)
Collapsible Boxes		
5300.FB.L	600 x 400 x 220 mm	570 x 370 x 210 mm
5300.FB.S	400 x 300 x 220 mm	370 x 270 x 210 mm
Top cover		Description
5310.43.A	400 x 300 mm	
5300.FB.64.N	600 x 400 mm	with 3 strapping grooves



TOP COVER

IEC
EN

Part Nr.	Outer Dimensions
5310.43	400 x 300 mm top cover
5310.64	600 x 400 mm top cover
5310.43.PU	400 x 300 mm lid with soft dissipative PU foam, pink Part Nr. 4930.1.43
5310.64.PU	600 x 400 mm lid with soft dissipative PU foam, pink Part Nr. 4930.1.64
5310.43.PU.S	400 x 300 mm lid with soft conductive PU foam, black Part Nr. 4470.1.43
5310.64.PU.S	600 x 400 mm lid with soft conductive PU foam, black Part Nr. 4470.1.64

IDP-STAT® TOP COVER



- Made of Inherently Dissipative Polymer (IDP-STAT®)

IEC
EN

Part Nr.	Outer Dimensions	Colour
5311.Y.43	400 x 300 mm top cover	yellow
5311.Y.64	600 x 400 mm top cover	yellow
5311.R.43	400 x 300 mm top cover	red
5311.R.64	600 x 400 mm top cover	red

HINGED LID



hinge

IEC
EN

Part Nr.	Outer Dimensions	Colour
5310.32.S	300 x 200 mm top cover	black
5311.R.32.S	300 x 200 mm top cover	red
5311.Y.32.S	300 x 200 mm top cover	yellow
5310.43.S	400 x 300 mm top cover	black

TOP COVER

IEC
EN

Part Nr.	Outer Dimensions
5310.32.A	300 x 200 mm
5310.43.A	400 x 300 mm
5310.64.A	600 x 400 mm



application examples



label holder



holder for KANBAN system

Part Nr.	Accessories	Type
① 5310.99.2	Label clamp	stainless steel
② 5310.99.3	Sliding lock, conductive	PP, black, conductive
③ 5310.99.1	Snap lock	PP, white
④ 5221.4.IDP.250	Label holder IDP-STAT® PVC transparent, self-adhesive backing (118 x 80 x 0,25 mm), Qty 10 pcs front and back made of IDP-STAT® film	
⑤ 5221.5.IDP.250.N	Label holder IDP-STAT® PVC transparent, self-adhesive backing (118 x 74 x 0,25 mm), Qty 10 pcs front made of IDP-STAT® film, back made of insulating film	
⑥ 5221.IDP.700	Document holder IDP-STAT® PVC for hanging onto tote boxes DIN A5, 158 x 210 x 0,7 mm, folded top side 22 mm, Qty 5 pcs	
⑦ 3015.203.075.IDP	Holder for KANBAN system IDP-STAT® PVC, transparent, (203 x 75 x 0,25 mm), 1 open side, Qty 25 pcs	

WEZ BLACKLINE® – DIVIDERS

NEW



- Flexible partitions for individual container division
- Thickness: 3 mm (solid material), volume conductive

Part Nr.	Outer Dimensions mm (W x D x H)	Division
5351.2610.003.992	258 x 100 x 3 mm	23 mm
5351.3610.003.992	358 x 100 x 3 mm	29 mm
5351.5610.003.992	558 x 100 x 3 mm	33 mm
5351.3620.003.992	358 x 200 x 3 mm	64 mm
5351.5620.003.992	558 x 200 x 3 mm	73 mm

TOTE BOXES DIVIDERS FOR PCB'S

- Permanent volume conductive Polypropylene
- For standard tote boxes:
600 x 400 mm
- Honeycomb profile
- Material thickness: 3 mm
- Material weight: 550 g/m²
- High abrasion resistance
- Variable storage system

sample applications



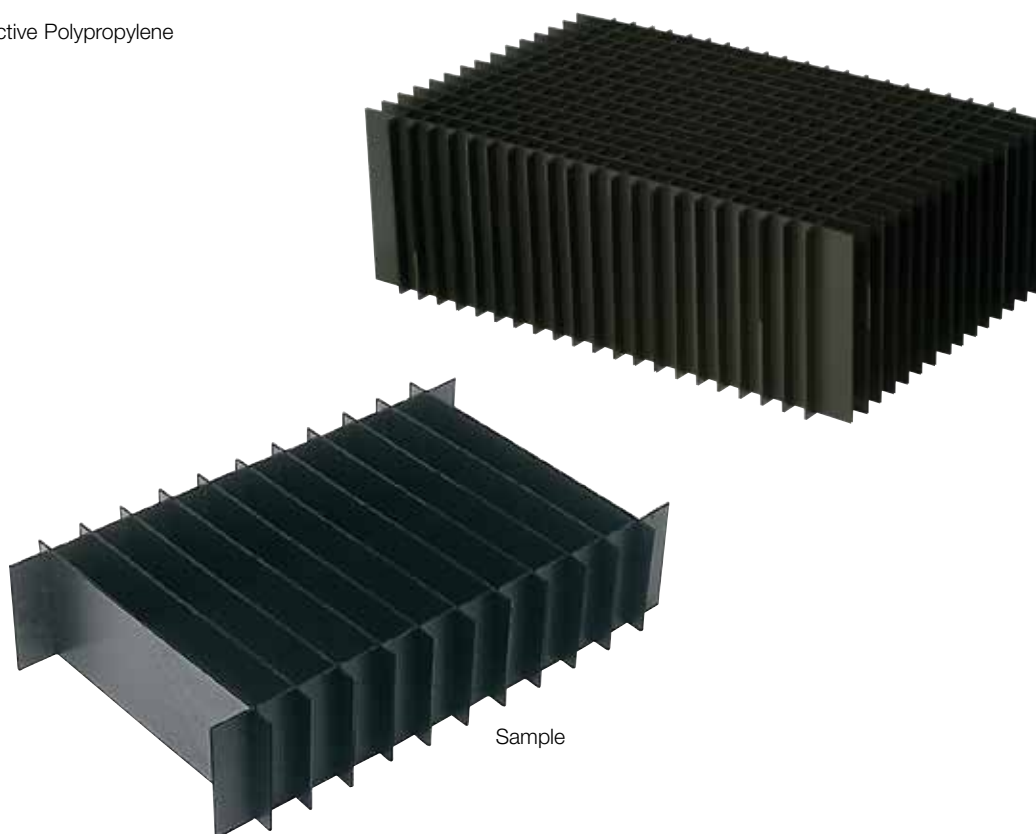
Standard dividers for tote boxes 600 x 400 x ... mm

Partition sizes: 553 x 353 x 80/120/180 mm (L x W x H)
 Cell size: 23 x 20 mm
 Rows / max.: 20 x 14 = 280 cells
 The individual cell sizes can be modified by removing short and long dividers

Part Nr.	Size (L x W x H)	Distance between slots	Slots
Long dividers for different 600 x 400 mm tote boxes configuration			
5420.553.23.80	553 x 80 x 3 mm	23 mm	21
5420.553.23.120	553 x 120 x 3 mm	23 mm	21
5420.553.23.180	553 x 180 x 3 mm	23 mm	21
Short dividers for different 600 x 400 mm tote boxes configuration			
5420.353.20.80	353 x 80 x 3 mm	20 mm	15
5420.353.20.120	353 x 120 x 3 mm	20 mm	15
5420.353.20.180	353 x 180 x 3 mm	20 mm	15
Custom-made dividers on request			
5420.Z.G	Customized		

Part Nr.	Set includes	Dimensions
Sets		
5420.G1.80	Height: 80 mm Long divider: 15 (Part Nr.: 5420.553.23.80) Short divider: 21 (Part Nr.: 5420.353.20.80)	553 x 80 x 3 mm 353 x 80 x 3 mm
5420.G1.120	Height: 120 mm Long divider: 15 (Part Nr.: 5420.553.23.120) Short divider: 21 (Part Nr.: 5420.353.20.120)	553 x 120 x 3 mm 353 x 120 x 3 mm
5420.G1.180	Height: 180 mm Long divider: 15 (Part Nr.: 5420.553.23.180) Short divider: 21 (Part Nr.: 5420.353.20.180)	553 x 180 x 3 mm 353 x 180 x 3 mm

- Permanent volume conductive Polypropylene
- For standard tote boxes:
400 x 300 mm
- Honeycomb profile
- Material thickness: 3 mm
- Material weight: 550 g/m²
- High abrasion resistance
- Variable storage system



Standard dividers for tote boxes 400 x 300 x ... mm

Partition sizes: 353 x 253 x 80 / 120 / 180 mm (L x W x H)
 Cell size: 20 x 20 mm
 Rows / max.: 10 x 14 = 140 cells
 The individual cell sizes can be modified by removing short and long dividers

Part Nr.	Size (L x W x H)	Distance between slots	Slots
Long dividers for different 400 x 300 mm tote boxes configuration			
5420.353.20.80	353 x 80 x 3 mm	20 mm	15
5420.353.20.120	353 x 120 x 3 mm	20 mm	15
5420.353.20.180	353 x 180 x 3 mm	20 mm	15
Short dividers for different 400x x 300 mm tote boxes configuration			
5420.253.20.80	253 x 80 x 3 mm	20 mm	11
5420.253.20.120	253 x 120 x 3 mm	20 mm	11
5420.253.20.180	253 x 180 x 3 mm	20 mm	11
Custom-made dividers on request			
5420.Z.G	Customized		

Part Nr.	Set includes	Dimensions
Sets		
5420.G2.80	Height: 80 mm Long divider: 11 (Part Nr.: 5420.353.20.80) Short divider: 15 (Part Nr.: 5420.253.20.80)	353 x 80 x 3 mm 253 x 80 x 3 mm
5420.G2.120	Height: 120 mm Long divider: 11 (Part Nr.: 5420.353.20.120) Short divider: 15 (Part Nr.: 5420.253.20.120)	353 x 120 x 3 mm 253 x 120 x 3 mm
5420.G2.180	Height: 180 mm Long divider: 11 (Part Nr.: 5420.353.20.180) Short divider: 15 (Part Nr.: 5420.253.20.180)	353 x 180 x 3 mm 253 x 180 x 3 mm

TOTE BOXES SEPARATORS



sample application

- Permanent, carbon loaded, conductive Polypropylene

Part Nr.	Outer dimensions
5401.0253	353 x 253 x 3 mm with 2 cut edges
5401.0353	553 x 353 x 3 mm with 2 cut edges
Separator, carbon loaded conductive Polypropylene with 3 mm Polyethylene foam (glued together), with 2 cut edges	
5425.0353.0553.PE	553 x 353 x 6 mm
5425.0253.0353.PE	353 x 253 x 6 mm



Custom sizes available on request.

CONDUCTIVE CASE



- Permanent conductive carbon loaded Polypropylene

Part Nr.	Description	Inner dimensions (L x W x H)
5100.K42.N	black conductive case, with foam insert	240 x 170 x 42 mm
5100.K53	black conductive case	340 x 250 x 53 mm

TRANSPORT PALLET



- Permanent, carbon loaded, conductive Polypropylene
- Half euro pallet size 800 x 600 x 150 mm
- Perforated support surface
- Stackable
- 3 skids
- Dynamic load up to 400 kg
- Static load up to 800 kg
- Weight: 3,8 kg
- ESD-Symbol

Part Nr.	Outer dimensions
5395.400.S	800 x 600 x 150 mm

TRANSPORT PALLET

NEW



LOAD-BEARING PROPERTIES

165

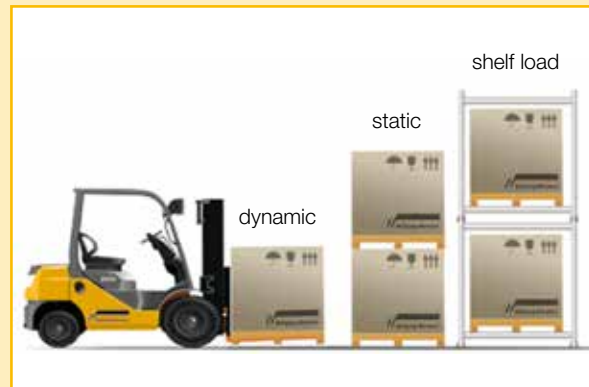


- Permanent, carbon loaded, conductive Polypropylene
- Pallet can be reinforced with 3 galvanized metal pipes
- Euro pallet size 1200 x 800 x 150 mm
- Static load up to 4.000 kg
- Dynamic load up to 1.000 kg
- ESD-Symbol
- Stackable
- Weight: 11 kg
- With 7 mm frame
- Shelf load without pipes: 400 kg
with pipes: 800 kg

Part Nr.	Outer dimensions	Description
5395.800	1200 x 800 x 150 mm	Transport pallet
5395.800.MS		3 metal pipes

Transport pallets have different load-bearing properties:

- **Dynamic load:**
During the transport with a fork lift.
- **Static load:**
When storing the pallets on a solid ground.
- **Shelf load:**
When storing the pallets in a shelf.



TRANSPORT PALLET CLOSED TOP SURFACE



- Dimension: 1200 x 800 x 155 mm
- Permanent, carbon loaded, conductive Polypropylene
- Euro pallet size 1200 x 800 x 155 mm
- Static load up to 7.500 kg
- Dynamic load up to 2.500 kg
- Closed top surface with 10 mm frame
- Weight: approx. 15 kg
- ESD-Symbol
- Suitable for the stackable frames 5395.AR
- Shelf load: 500 kg

Part Nr.	Outer dimensions
5395.PAL	1200 x 800 x 155 mm

STACKABLE FRAME FOR PALLETS



- Variable stacking of frames
- Frames with 4 corner hinges, foldable
- Material: conductive PS, carbon loaded
- Dimension: 1200 x 800 x 200 mm
- Weight: about 5,2 kg
- With ESD Symbol

Part Nr.	Outer dimensions	Inner dimensions
5395.AR	1200 x 800 x 200 mm	1140 x 745 x 200 mm



SMD SPOOL RACKS



5200.03.H.S

Fifo-Principle
(first in, first out)



5200.03.H.L

- Permanent, conductive carbon loaded Polystyrene
- For storage of SMD reels

Part Nr.	Inner dimensions (L x W x H)
5200.03.H.S	182 x 169 x 190 mm max. Ø 180 mm
5200.03.H.L	335 x 315 x 190 mm max. Ø 330 mm

SMD SPOOL RACKS



5200.04.V.S.10

- Permanent, conductive carbon loaded Polystyrene
- For storage of SMD reels

Supplied with 10 separators and a label



5200.04.V.L.10

Part Nr.	Outer dimensions (L x W x H)
Spool diameter: max. Ø 250 mm	
5200.04.V.S.10	450 x 240 mm
5200.04.ST.S	Single separator
Spool diameter: max. Ø 330 mm	
5200.04.V.L.10	455 x 315 mm
5200.04.ST.L	Single separator

SMD SPOOL RACKS



- Permanent, carbon loaded, conductive Polystyrene
- Stackable when empty
- With ESD and Recycling Symbol

- Suitable for:
Utility carts
Shelf storage
Tote boxes
Revolving shelves

Part Nr.	Outer Dimensions (W x H x D)
① 5200.01.560.365.178	560 x 365 x 178 mm Spool diameter: 330 mm Holds up to 38 spools
② 5200.02.362.188.110	362 x 188 x 110 mm Spool diameter: 180 mm Holds up to 23 spools
③ 5200.02.600.200.100	600 x 200 x 100 mm Spool diameter: 180 mm Holds up to 42 spools

SPOOL RACK SEPARATORS



- Permanent, carbon loaded, conductive Polystyrene

Part Nr.	Dimensions	Qty.
5200.180.180.2	180 x 180 x 2 mm for 180 Ø	10 pcs
5200.330.165.2	330 x 165 x 2 mm for 330 Ø	10 pcs
5200.330.330.2	330 x 330 x 2 mm for 330 Ø	10 pcs

METAL SMD SPOOL RACK



- Galvanized steel, rugged construction
- For Spool diameter 180 - 380 mm
- Holds up to 14 spools
- Stainless steel partitions, 20 mm distance, variable
- Linkable, 300 mm width blocks
- Plastic stands
- Labelling frame optional

IEC
EN

Part Nr.	Description	Dimensions (L x W x H)
5330.14	SMD spool rack	300 x 285 x 175 mm
5330.14.BS	labelling frame	300 x 45 x 15 mm

BANDS FOR IC-TUBES



- Dissipative velcro band for IC tubes

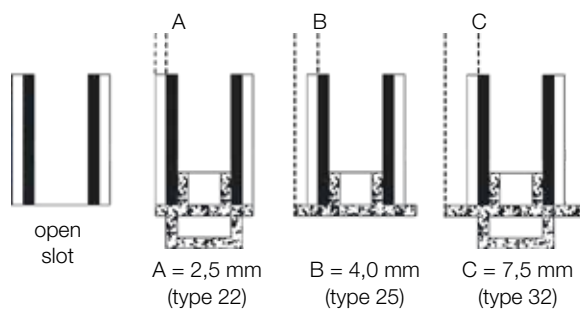
Part Nr.	Dimension	Qty.
3410.710	710 mm length	25 pcs

WEZ RACK® SYSTEM

180 SERIES

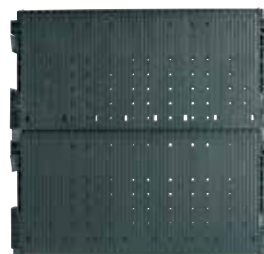


Slot stops for 180 series



The simplest and safest system for PCB handling during production, storage and transportation. Slots on both sides of wall with chamfered leadins for easy PCB insertion. Ideal for automated handling as well. Clip in slot stops, protect against incorrect PCB insertion.

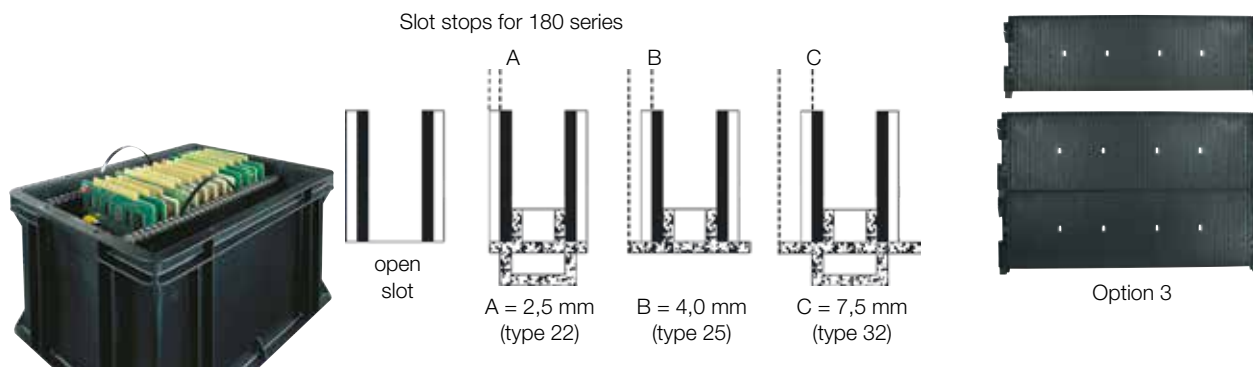
- Fast and easy fitting
- Flexible, easy handle to facilitate handling.
- Better protection for connectors and other projecting parts on the PCB due to a 15 mm standoff.
- Label clips for holding documents at various positions
- Robust and warp resistant
- Also available in a double-height version with 345 mm slot length.
- Slot width/depth 3.5 / 2.5 mm
- Slot pitch 10.16 mm
- Colour: black
- Recycable



Option 1

Option 2

Part Nr.	Description
Option 1: Single wall 300/322: 255 x 180 x 22 mm / Number of slots: 20	
5350.2518.000.992	Single wall 300, without slot stop
5350.2518.900.992	Single wall 300, without slot stop Alu reinforced
5350.2518.022.992	Single wall 322, with slot stop 22 (A)
5350.2518.922.992	Single wall 322, with slot stop 22 (A) Alu reinforced
Option 1: Double height wall 300/322: 255 x 345 x 22 mm / Number of slots: 20	
5350.2534.000.992	Double height wall 300, without slot stop
5350.2534.900.992	Double height wall 300, without slot stop Alu reinforced
5350.2534.022.992	Double height wall 322, with slot stop 22 (A)
5350.2534.922.992	Double height wall 322, with slot stop 22 (A) Alu reinforced
Option 2: Single wall 400/422/432 - 355 x 180 x 22/32 mm / Number of slots: 30	
5350.3518.000.992	Single wall 400, without slot stop
5350.3518.900.992	Single wall 400, without slot stop Alu reinforced
5350.3518.022.992	Single wall 422, with slot stop 22 (A)
5350.3518.922.992	Single wall 422, with slot stop 22 (A) Alu reinforced
5350.3518.032.992	Single wall 432, with slot stop 32 (C)
5350.3518.932.992	Single wall 432, with slot stop 32 (C) Alu reinforced
Option 2: Double height wall 400/422/432: 355 x 345 x 22/32 mm / Number of slots: 30	
5350.3535.000.992	Double height wall 400, without slot stop
5350.3535.900.992	Double height wall 400, without slot stop Alu reinforced
5350.3535.022.992	Double height wall 422, with slot stop 22 (A)
5350.3535.922.992	Double height wall 422, with slot stop 22 (A) Alu reinforced
5350.3535.032.992	Double height wall 432, with slot stop 32 (C)
5350.3535.932.992	Double height wall 432, with slot stop 32 (C) Alu reinforced



Part Nr.	Description
Option 3: Single wall 600/625: 555 x 180 x 25 mm / Number of slots: 49	
5350.5518.000.992	Single wall 600, without slot stop
5350.5518.025.992	Single wall 625, with slot stop 25 (B)
Option 3: Double height wall 600/625: 555 x 345 x 22/25 mm	
5350.5535.000.992	Double height wall 600, without slot stop
5350.5535.900.992	Double height wall 600, without slot stop Alu reinforced
5350.5535.025.992	Double height wall 625, with slot stop 25 (B)
5350.5535.925.992	Double height wall 625, with slot stop 25 (B) Alu reinforced

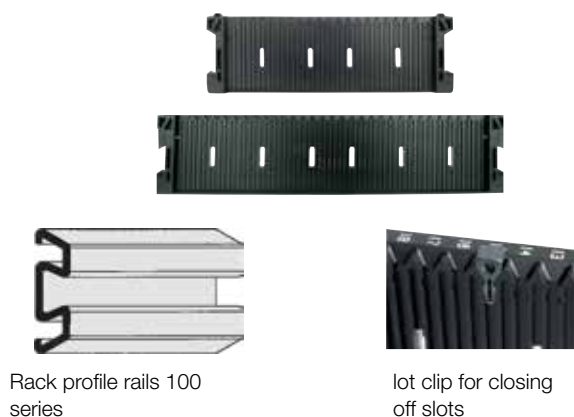
ALUMINIUM RACK PROFILE



Rails for 180 series walls, standard lengths are suitable for tote boxes (see page 156 – 158). Custom sizes available on request.

Part Nr.	length
5350.9980.074.256	256 mm
5350.9980.074.356	356 mm
5350.9980.074.556	556 mm
5350.9980.074.Z	Custom sizes
5350.9980.076.000	Slot clip for Rack Series 180 (100 pcs)
5350.9980.077	Handle for slotted wall
5350.9980.079	Label clamp

WEZ RACK 100 SERIES



A sturdy, non-flexing slotted partition 80 mm height. Single-sided wall with chamfered insertion slots. Clip-on stops for closing off slots. Completely adjustable using aluminium profile rails. Fast and easy assembly using the slots at each end of the partitions.

Part Nr.	Description	Dimensions mm
5350.2510.000.992	Single wall pair 1-300	255 x 80 x 13.5
5350.3510.000.992	Single wall pair 1-400	355 x 80 x 13.5
5350.9980.149.156	Rack profile rails 1-156	Length = 156
5350.9980.149.256	Rack profile rails 1-256	Length = 256
5350.9980.149.356	Rack profile rails 1-356	Length = 356
5350.9980.149.556	Rack profile rails 1-556	Length = 556
5350.9980.149.Z	Rack profile rails 1-XXX	custom sizes
5350.9980.152.000	Slot clip 100 (Qty. 100 pcs)	

PCB RACK STANDARD SIZES

The versatile conductive PCB racks are made of volume conductive polypropylene and are an ideal aid in the production, storage and transportation of PCB's.

- The stable and non-flexing construction of the racks allows manual and automatic handling
- Stackable if the same size is used
- Numbered slots with slot stop
- Slot width 2,5 mm
- Pitch 15,3 mm
- Colour: black
- Recyclable



Part Nr.	Outer Dim. (L x W x H)	Max. length of PCB	Number of slots
Layout 1: Consists of 2 side walls, 2 aluminium rails and screws			
5345.EL.V1	150 x 95 x 250 mm	135 mm	15
5345.EL.V2	350 x 95 x 250 mm	335 mm	15
5345.EL.V3	250 x 190 x 350 mm	235 mm	22
5345.EL.V4	550 x 190 x 350 mm	535 mm	22
Layout 2: Consists of 2 side walls, 1 double-sided center wall, 2 aluminium rails and screws			
5345.EL.V5	250 x 190 x 350 mm	95 + 95 mm	22 + 22
5345.EL.V6	550 x 190 x 350 mm	254 + 254 mm	22 + 22

PCB RACK SINGLE COMPONENTS



Horizontal usage



Vertical usage

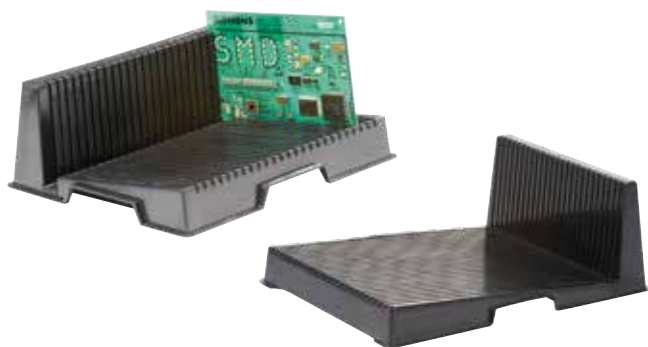


Part Nr.	Standard sizes
Aluminium profile rails (Pair)	
5345.EL.F1	152 x 53 mm
5345.EL.F2	252 x 53 mm
5345.EL.F4	352 x 53 mm
5345.EL.F6	552 x 53 mm



Part Nr.	Sizes	Number of slots	Slot width	Slot depth	Slot splitting
Walls (including screws)					
5345.EL4.1	350 x 30 x 190 mm	22	2,5 mm	3,0 mm	15,3 mm
5345.EL4.2	350 x 35 x 190 mm	22 + 22	2,5 mm	3,0 mm	15,3 mm
5345.EL3.1	250 x 30 x 95 mm	15	2,5 mm	3,0 mm	15,3 mm

CONDUCTIVE PCB RACK



- Permanent black conductive Polypropylene
- Capacity: 25 boards
- Distance between two slots: app 9,5 mm

Part Nr.	Outer Dimensions (L x W x H)
5366.210.S	210 x 275 x 95 mm, 3 mm slot
5366.350.L	350 x 270 x 130 mm, 2,4 mm slot

FOAM PCB HOLDER



- Made of dissipative PE hard foam
- Permanent, static dissipative, carbon loaded foam
- Cross linked, closed cell
- Abrasion resistant, non-corrosive
- 25 slots / width of slots: 3 mm / length of slots: 12 mm
- Two cut edges

Part Nr.	Dimensions
4550.25.0255.LP	355 x 255 x 25 mm

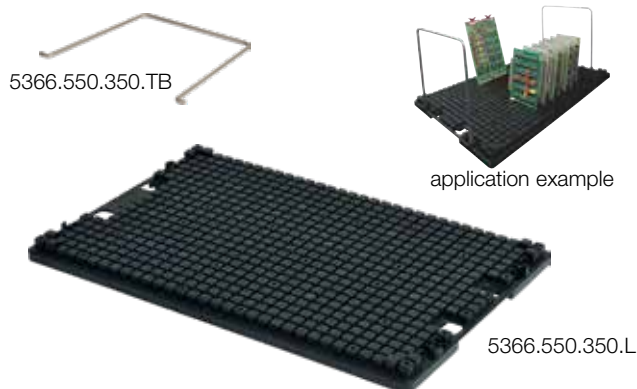
DISSIPATIVE PCB HOLDER



- Permanent, carbon loaded, dissipative Polypropylene
- For storage of printed circuit boards
- Capacity: Long side up to 19 PCB's, short side up to 13 PCB's
- Naps Ø 15 mm
- Distance between naps 1,8 mm

Part Nr.	Dimensions
5366.350.250.G	357 x 257 x 14 mm

DISSIPATIVE PCB HOLDER



- Permanent, carbon loaded, dissipative Polypropylene
- For storage of printed circuit boards
- Capacity: Long side up to 29 PCB's, short side up to 19 PCB's
- Naps 14 mm, quadratic
- Distance between naps 3 mm

Part Nr.	Dimensions
5366.550.350.L	557 x 357 x 22mm
5366.550.350.TB	Carrying handle



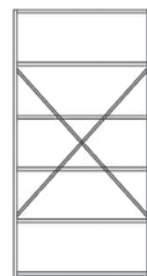
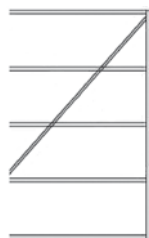
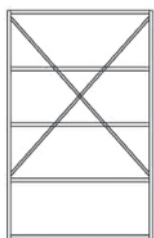
Height in mm:

2000

2500



Do it yourself system



Width in mm:	1030	1000	1030	1000
Description:	Standard shelf	Optional shelf	Standard shelf	Optional shelf
Number of shelves:	5	5	6	6

Depth in mm	Shelf load-bearing	Part Nr.			
400	100 kg	5370.RB.1111	5370.RB.1131	5370.RB.1171	5370.RB.1191
500	100 kg	5370.RB.1112	5370.RB.1132	5370.RB.1172	5370.RB.1192
600	100 kg	5370.RB.1113	5370.RB.1133	5370.RB.1173	5370.RB.1193

Stability and flexibility are the key concepts behind our galvanized steel shelving system.

The system is easy to assemble and may be extended in either direction.

- Posts made of profiled steel 30 x 30 mm
- Rugged galvanized steel shelves
- Shelves thickness - 40 mm
- Adjustable at 50 mm increments
- Stackable
- Shelves width: 970 mm
- Shelves depth: 400 / 500 / 600 mm
- Posts length: 2000 / 2500 mm
- Load-bearing capacity: 100 kg

Optional

Part Nr.	for shelf - Part Nr.
Side plates made of galvanized steel, 0,75 mm thickness	
5370.RB.1111.SP.A	5370.RB.1111
5370.RB.1112.SP.A	5370.RB.1112
5370.RB.1113.SP.A	5370.RB.1113
Back plates made of galvanized steel, 0,75 mm thickness	
5370.RB.BP.A	5370.RB.1111
	5370.RB.1112
	5370.RB.1113
Single shelves	
5370.RB.400.SH	5370.RB.1111
5370.RB.500.SH	5370.RB.1112
5370.RB.600.SH	5370.RB.1113



Side and back wire enclosure panels on request

TRANSPORT ROLLI FOR TOTE BOXES



- Made of galvanized steel
- Includes 4 swivel rubber castors
- Conductive castors 100 mm Ø
- Silent and smooth operation
- Overall load bearing up to 150 kg for a uniformly distributed load
- ESD symbol

IEC
EN

Part Nr.	Dimension	Description	Castor Colour
5390.200	610 x 410 mm	2 with brake	black
5390.800	810 x 610 mm	2 with brake	black
5390.200.SR	610 x 410 mm	without brake	grey
5390.200.SR.S	610 x 410 mm	2 with brake	grey
Accessories			
5390.ZS	860 mm	Pull rod (optional)	

UTILITY CART FOR TOTE BOXES



- Made of galvanized steel
- Includes 4 swivel rubber castors, 2 with brake
- Conductive castors 100 mm Ø
- Silent and smooth operation
- Overall load bearing up to 150 kg for a uniformly distributed load
- ESD symbol
- Delivered with the handle non mounted

IEC
EN

Part Nr.	Dimension
5390.1198	610 x 410 mm

TRANSPORT ROLLI FOR TOTE BOXES



- Made of galvanized steel
- For tote boxes transport
- 4 conductive swivel rubber castors, Ø 75mm, 2 castors with brake
- Silent and smooth operation
- Overall load bearing up to 150 kg for a uniformly distributed load
- ESD symbol

IEC
EN

Part Nr.	Dimension
5390.231	615 x 415 x 135 mm (L x W x H)
5390.ZS	860 mm Pull rod (optional)

TRANSPORT ROLLI - DOUBLE-DECKER



- Made of galvanized steel
- For tote boxes transport
- The upper shelf can be assembled in two positions (horizontal or inclined)
- 4 conductive swivel rubber castors, Ø 75mm, 2 castors with brake
- Silent and smooth operation
- Overall load bearing up to 150 kg for a uniformly distributed load
- ESD symbol

IEC
EN

Part Nr.	Dimension
5390.232.DS	615 x 415 x 505 mm (L x W x H)
Boxes not included	

TRANSPORT ROLLI COLLECTOR



The electrostatic dissipative transport rolli collector is the ideal solution for moving and storing transport rollis safely.

- Made of galvanized steel
- Includes 4 swivel rubber castors, 2 with brake
- Conductive castors Ø 100 mm
- Silent and smooth operation
- Overall load bearing up to 150 kg
- Max. Load: 8 Transport Rollis part no. 5390.200 or 5390.200.SR
- ESD symbol
- For self assembly

Part Nr.

5390.200.WS Transport Rolli Collector

TRANSPORT ROLLI
FOR TOTE BOXES

NEW



- Robust and durable plastic frame made of carbon loaded volume conductive polypropylene
- For transporting tote boxes (1 x 600x400 mm or 2 x 400x300 mm)
- Includes 4 swivel rubber castors Ø = 100 mm, 2 with brake
- Silent and smooth operation
- Overall load bearing up to 125 kg for a uniformly distributed load
- Weight: 4,7 kg
- ESD symbol
- Colour: black

Part Nr.

5390.250 Transport Rolli

EPA WORKSHOP TROLLEY



Other versions
available on request.

- Stable steel construction
- Dissipative powder coating
- Top surface with melanin coating
- 2 shelves adjustable in a 500 mm grid
- 4 drawers : 1 x 50 / 1 x 100 / 1 x 150 7 1 x 200
- Each drawer lockable / central lock with a key
- 4 conductive castors: Ø 125 mm
- 2 conductive swivel castors with brake
- Overall load bearing: 250 kg
- ESD symbol
- pre-assembled

IEC
EN

Part Nr.

Dimensions

5390.LW.1001 1200 x 600 x 815 mm (L x W x H)

Optional coverings

5390.LW.1001.659 Mats for shelf storage (Part Nr. 1452.659.* see page 21)

5390.LW.1001.7206 Rubber mat (Part Nr. 1451.7206.* see page 22)

UTILITY CART WITH FOLDABLE HANDLE



- Stainless steel construction
- 4 conductive castors: Ø 100 mm
- Includes 4 swivel rubber castors, 2 castors with brake
- Platform fitted with dissipative rubber mat
- Overall load bearing: 100 kg for a uniformly distributed load
- ESD symbol
- For self assembly

IEC
EN

Part Nr.	Dimensions
5390.KW	825 x 520 x 950 mm (L x W x H)

UTILITY CARTS



- Made of galvanized steel
- Conductive swivel castors
- Rubber castors
- Silent and smooth operation
- 4 conductive swivel castors, 2 with brake
- ESD symbol
- For self assembly
- **1 shelf**, fitted with rubber mat
- Shelf height: 180 mm
- Overall load bearing up to 125 kg for a uniformly distributed load
- Suitable for PCB racks transport
- castors Ø 100 mm

IEC
EN

Part Nr.	Dimensions
5390.510	950 x 540 x 915 mm (L x W x H)

UTILITY CART



- Made of galvanized steel
- Conductive swivel castors
- Rubber castors
- Silent and smooth operation
- 4 conductive swivel castors, 2 with brake
- ESD symbol
- For self assembly
- **2 shelves**, fitted with table mats,
- Highest shelf 730 mm
- Overall load bearing up to 150 kg for a uniformly distributed load
- Distance between shelves: 520 mm
- castors Ø 100 mm
- 3rd shelf optional, Distance between shelves: 250 mm

IEC
EN

Part Nr.	shelf
5390.400	740 x 430 mm
5390.400.A	3rd shelf

UTILITY CART



- Made of galvanized steel
- Conductive swivel castors
- Rubber castors
- Silent and smooth operation
- 4 conductive swivel castors, 2 with brake
- ESD symbol
- For self assembly
- **3 shelves**, fitted with table mat
- Highest shelf, 770 mm
- Overall load bearing up to 250 kg for a uniformly distributed load
- Distance between shelves: 260 mm
- castors Ø 125 mm

IEC
EN

Part Nr.	shelf
5390.700	950 x 540 mm

TRANSPORT CART



- Stable steel construction
- Dissipative powder coating
- Colour: grey - RAL 7035
- Frame profile 40 x 40 mm
- 5 metal shelves – 3 shelves are height adjustable
- Shelf height 255 – 1710 mm adjustable
- Load bearing of up to 120 kg for a uniformly distributed load for each shelf
- 4 conductive castors: Ø 160 mm
- 2 conductive swivel castors with brake
- Overall load bearing: 400 kg
- ESD symbol
- For self assembly

IEC
EN

Part Nr.	Dimension
5390.T	1000 x 600 x 1760 mm (L x W x H)
Boxes not included	

TRANSPORT CART



- Dissipative, powder coated steel construction
- Colour: grey - RAL 7035
- Frame profile 30 x 30 mm
- Easy snap- and screw fastening
- 4 galvanized shelves in 50mm distance, height adjustable
- Shelf height 250 to 1570 mm adjustable
- Load bearing of up to 80 kg for a uniformly distributed load for each shelf
- Easy handling
- 4 conductive castors; Ø 125 mm
- 2 conductive swivel castors with brake
- Overall load bearing: 250 kg
- ESD symbol

IEC
EN

Part Nr.	Dimension
5390.V	1030 x 600 x 1660 mm (L x W x H)
Boxes not included	

STORAGE CART



- Made of galvanized steel
- Includes 3 height adjustable shelves
- 25 mm - adjustable
- 4 conductive rubber rolls Ø 100 mm
- 2 conductive swivel castors with brake
- ESD symbol
- Load bearing of up to 80 kg for a uniformly distributed load for each shelf
- For self assembly

IEC
EN

Part Nr.	Dimensions (L x W x H)
5390.1210.01	1040 x 540 x 1280 mm Shelves: 925 x 405 mm
Boxes not included	
Single shelves	
5390.12102	suitable for 5390.1210.01



- Made of galvanized steel
- Includes 3 height adjustable shelves
- 25 mm - adjustable
- 4 conductive rubber rolls Ø 100 mm
- 2 conductive swivel castors with brake
- ESD symbol
- Load bearing of up to 80 kg for a uniformly distributed load for each shelf
- For self assembly

IEC
EN

Part Nr.	Dimensions (L x W x H)
5390.1207.01	740 x 540 x 1280 mm Shelves: 625 x 405 mm
Boxes not included	
Single shelves	
5390.12072	suitable for 5390.1207.01

BIN TROLLEY



application example

- Made of galvanized steel
- 25 mm - adjustable
- 4 conductive rubber castors Ø 100 mm
- 4 swivel castors
- ESD symbol
- Load bearing of up to 150 kg
- **For self assembly**

IEC
EN

Part Nr.	Dimensions (L x W x H)
5390.FB.E	trolley, empty 470 x 585 x 1880 mm
5390.FB.R	rails (1 pair)
5390.FB.T	shelf



5390.FB.R



5390.FB.T



FIELD SERVICE KIT



- Portable static controlled station for mobile personnel
- Heavy-duty, dissipative Vinyl material
- Includes a 650 x 600 mm mat with 2 snaps and 2 pockets
- Carrying wallet with a snap fastener
- Includes a coil cord with an adjustable wrist strap, a 3 m grounding cord and a large alligator clip (VDE)

IEC
EN

Part Nr.

2400.700.KIT

ECOSTAT® SERVICE KIT



- Portable static controlled station for mobile personnel
- Permanent dissipative service kit made of Polyurethan (TPU)
- Blue mat 650 x 600 mm, with two pockets
- Quick and easy to fold
- Includes: mat with 2 x 10 mm snap, coil cord with an adjustable wrist strap, a 3 m grounding cord and a large alligator clip (VDE)

IEC
EN

Part Nr.

2400.FS.KIT

ESD TOOL-KIT



- For service applications
- 9-piece set conductive tools in conductive synthetic leather bag

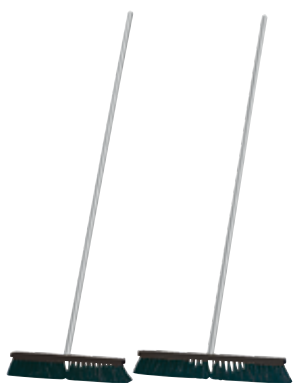
Includes:

- Diagonal cutter 130 mm
- Nose pliers 130 mm
- 2 Slot screwdriver
- 2 Cross screwdriver
- Tweezers
- 2 Torx®-Screwdriver

Part Nr.

2450.WZ.KIT

BROOMS



- Static dissipative brooms with 35 mm bristles
- Aluminium broomstick: 1480 mm
- Brush width: 400 mm / 500 mm
- ESD symbol

Part Nr.	Brush width
6101.400.N	400 mm
6101.500.N	500 mm

BROOMS



- Static dissipative brooms with 35 mm bristles
- Plastic broomstick: 1480 mm
- Brush width: 400 mm / 500 mm
- ESD symbol

Part Nr.	Brush width
6105.400.K	400 mm
6105.500.K	500 mm

DUSTPAN AND BRUSH



- Static dissipative bristles, 45 mm long
- Brush length: 190 mm
- Brush width: 30 mm
- Aluminium handle, 760 mm long
- Dustpan made of conductive material, width: 260 mm, height: 870 mm
- ESD symbol

Part Nr.	
6101.K	Dustpan and brush

DUSTPAN



- Conductive, volume loaded material
- Width: 310 mm
- Depth: 160 mm
- ESD symbol

Part Nr.	
6105.S.290.K	Dustpan

WORKBENCH BRUSH

- Conductive, volume loaded material
- Ideal for cleaning table mats
- Brush width: 160 mm
- ESD symbol

Part Nr.**6101.160.N**

Workbench brush

DUSTPAN

- Conductive, volume loaded material
- Width: 290 mm
- Depth: 190 mm
- ESD symbol

Part Nr.**6101.S.290**

Dustpan

WORKBENCH BRUSH

- Conductive, volume loaded material
- Ideal for cleaning table mats
- Brush width: 340 mm
- ESD symbol

Part Nr.**6105.140.K**

Workbench brush

SPATULA

- Conductive, volume loaded material
- Ideal for removing adhesives
- Dimensions: 75 x 250 mm
- ESD symbol

Part Nr.**6105.SP.75**

Spatula



- Permanent, carbon loaded, conductive polypropylene
- Trolley equipped with 4 conductive castors
- ESD symbol
- Recycling symbol
- Height 725 mm

Consists of: bin, lid and trolley



Fitting waste bags
(3110.890), see page 182



Part Nr.	Type	Size (W x D x H)
① 5180.890.SET	Set	510 x 490 x 725 mm
② 5180.890	Bin	510 x 490 x 600 mm
③ 5180.890.D	Lid	510 x 460 x 50 mm
④ 5180.890.F	Trolley	370 x 370 x 140 mm
⑤ 5180.890.D.S	Hinge for lid, Part Nr. 5180.890.D	

WASTE BASKET



- Permanent, carbon loaded, conductive polypropylene
- ESD symbol
- Recycling symbol



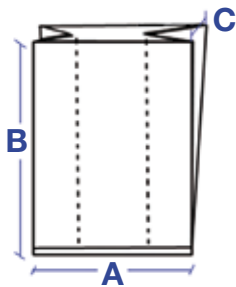
Part Nr.	Ø	Height	Volume
① 5180.850	Ø 300 mm	320 mm	14 litres
② 5180.854	Ø 395 mm	420 mm	35 litres
③ 5180.855	330 x 330 mm	530 mm	40 litres
④ 5180.860	280 x 555 mm	590 mm	60 litres
⑤ 5180.860.D	Lid for 5180.860		

Fitting waste bags, see page 182

- | |
|--------------|
| ① 3110.850 |
| ② 3110.850.2 |
| ③ 3110.850.1 |
| ④ 3110.890 |



PERMASTAT® WASTE BAGS ♦



Gusseted bags

- Static dissipative Polyethylene
- Recyclable
- ESD symbol
- Recycling symbol
- Colour: Pink



IEC
EN

Part Nr.	Sizes (A + C x B)	Volume	Quantity	suitable for Part Nr.
3110.850	300 + 200 x 600 x 0,020 mm	30 litres	500 Gusseted bags/roll	5180.850
3110.850.2	380 + 320 x 1100 x 0,060 mm	120 litres	100 Gusseted bags/roll	5180.854
3110.890	500 + 400 x 1200 x 0,080 mm	190 litres	100 Gusseted bags/roll	5180.890
3110.853	750 + 750 x 1800 x 0,080 mm	600 litres	75 Gusseted bags/roll	5180.M600
3110.850.1	700 x 1100 x 0,060 mm	120 litres	100 bags/roll for waste basket	5180.SH.125

ESD WIPES



- Static dissipative ESD wipes for use with normal cleaning fluids
- 100% knitted polyester
- Good solvent resistance, lint free
- Size: 230 x 230 mm
- Colour: white
- Not washable

Part Nr.	Quantity
8850.WP	50 pcs

ESD WIPES



- Static dissipative ESD wipes for use with normal cleaning fluids
- 100% knitted polyester
- Good solvent resistance, lint free
- Size: 230 x 230 mm
- Colour: pink
- Not washable

Part Nr.	Quantity
6200.20	50 pcs



- Galvanized steel construction
- 4 conductive swivel castors
- ESD symbol
- Volume 125 litre
- Load bearing of up to 30 kg
- For self-assembly

Part Nr.	Size (W x D x H)
5180.SH.125	450 x 380 x 900 mm
3110.850.1	700 x 1100 x 0,060 mm Suitable waste bag

EPA-VAC VACUUM CLEANER

NEW



- EPA vacuum cleaner for usage in Electrostatic Protected Areas
- Silent motor, extreme quiet vacuuming at 54dB (at lowest level)
- HEPA-Filter H13
- Chassis with 5 conductive twin swivel castors
- Operating radius: 15 m
- Weight: 5,8 kg
- Capacity: 8 Liters
- Safety class 1
- 800 Watt

Includes:

Vacuum cleaner, 12 m power cable, 2,5 m flexible pipe, 1 m pipe and 3 accessories (see picture), filter

Part Nr.	Type	Quantity
7350.VAC.EPA	EPA-VAC vacuum cleaner	1 Set
Filter/spareparts		
7350.VAC.EPA.MVB	Micro-fleece dust bag-pack (Dust class M)	5 pieces
7350.VAC.EPA.HF	HEPA-filter (H13)	1 piece
7350.VAC.EPA.MSF	Motor protection filter	1 piece
7350.VAC.EPA.FSF	Permanent fine dust filter	1 piece

ESD FLOOR POLISH

- Dissipative floor wax
- Suitable for normal PVC, linoleum and parquet floors
- High gloss, durable finish
- Effective and economical
- Easy to apply
- Recoating needed on a regular basis
- Approximate floor coverage 40 m²/litre

Part Nr.	Quantity
2900.581.1	5 litres

ESD FLOOR STRIPPER

- Floor Stripper for use with ESD floors
- Removes safely and effectively layers of floor polish
- Use the floor stripper before applying floor polish for the first time
- Consumption: app. 1 litre concentrate / 10 m²

Part Nr.	Quantity
2900.580	5 litres

ESD FLOOR CLEANER

- Special cleaner for ESD floors
- Protects against the deterioration of the static dissipative properties
- Removes grease and dirt

Part Nr.	Quantity
2900.560.1	5 litres

ESD CLEANER

- Special cleaner for dissipative and conductive surfaces
- Protects against deterioration of the static dissipative properties
- Removes liquid spill stains, flux, residues, grease and dirt
- Trigger-spray bottle for easy application

Part Nr.	Quantity
2900.570	1 litre spray bottle
2900.571.1	5 litres

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