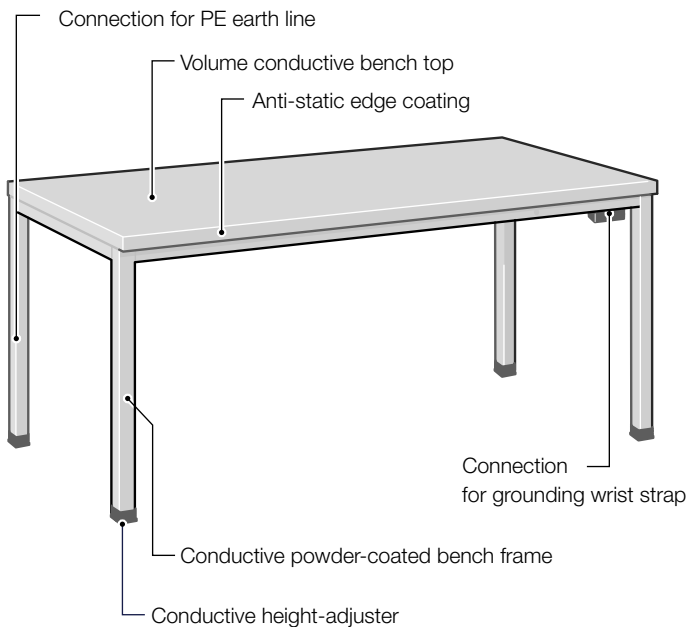




The Elabo EcoTec^{SP} ESD bench



Electrostatic voltages are created due to friction or separation of insulating materials. This can charge objects and humans to high potential values. Sensitive semi-conductors may become damaged without being noticeable due to discharge stimuli of less than 100V.

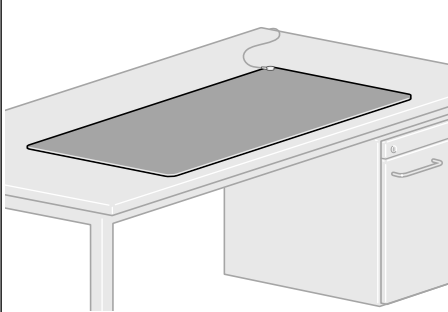
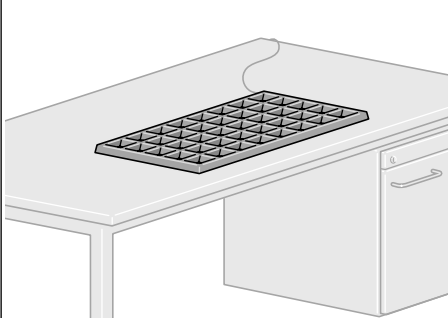
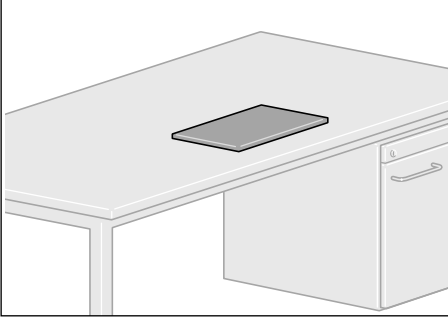
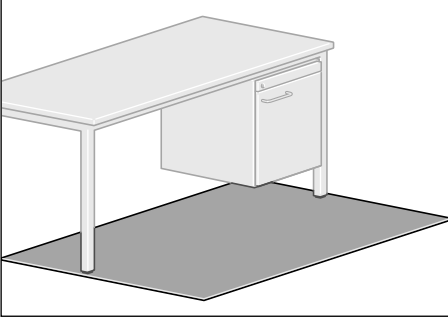
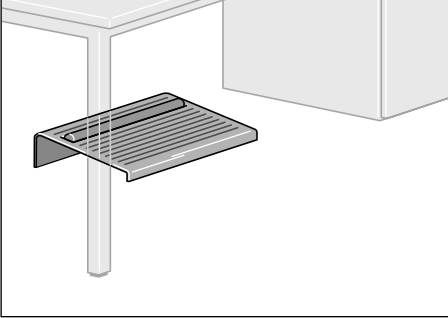
When working with ESD construction elements it is important to take safety precautions. Damages to the construction element connections due to voltages being too high can be avoided by taking suitable precautions:

- 1 Electrostatic Discharge Protection Areas (EPA) with conductive floors and bench coatings as well as ESD-conformant tools and non-chargeable work clothing.
- 2 Using conductive tablemats, work chairs, wrist straps and earth bonding points with integrated protective resistors at the individual workstation.
- 3 Maintaining a relative humidity of at least 40% with appropriate climate control units.

Conductive Elabo ESD benches are fitted with a volume conductive bench top. The bench frame is powder-coated so as to be conductive. All metal parts and the work surface are connected together so as to be continuously conductive.

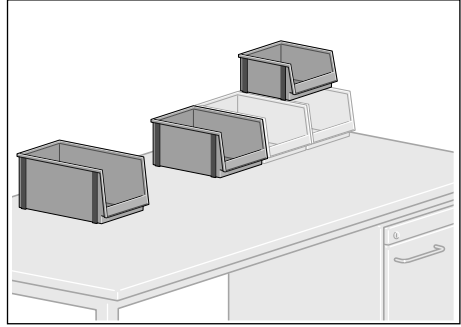
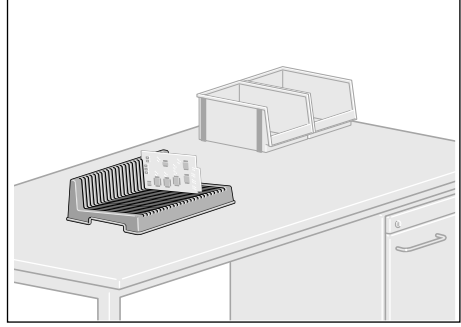
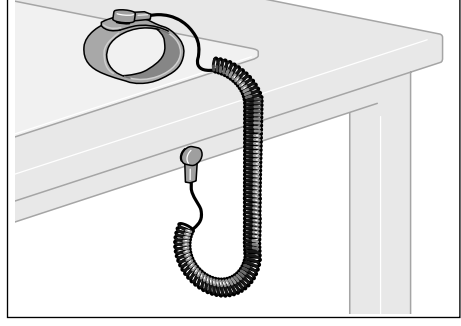
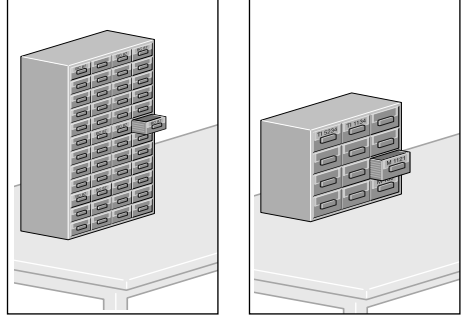
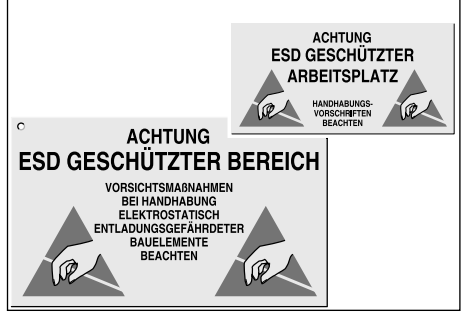
The bench system's bleed resistor is 10^6 to 10^9 ohms conforming to IEC 61340-5-1. The benches are prepared for connecting the PE earth line and earth bonding point (EBP). There are also conductive height adjusters installed in the bench foot.



Table mat		<p>Technical details</p> <p>Conductive table mat for benches without the appropriate surface. The underside is non-slip with conductive foam. ESD ground connection for earth bonding point and grounding wrist strap via push buttons 10mm ø. Colour grey</p>	<p>Width Depth Height</p> <p>900 x 520 x 2</p>	<p>Order no.</p> <p>01-4L</p>
Solid rubber lattice mat		<p>Technical details</p> <p>Conductive solid rubber lattice mat as protective underlay for repairs and production work with push button connection 10mm ø. Colour black</p>	<p>Width Depth Height</p> <p>625 x 375 x 20</p>	<p>Order no.</p> <p>01-4W</p>
Foam		<p>Technical details</p> <p>Conductive foam for laying ESD components, for lining drawers and containers. Colour black</p>	<p>Width Depth Height</p> <p>330 x 240 x 6</p>	<p>Order no.</p> <p>01-4U</p>
Floor covering		<p>Technical details</p> <p>Conductive floor covering with good lying properties. Resistant to chair wheels, two-layer synthetic rubber with back coating. Push button connection 10mm ø with 1.5m connecting cable for ESD ground connection, e.g. on bench frame. Colour grey</p>	<p>Width Depth Height</p> <p>1500 x 1220 x 3.5</p>	<p>Order no.</p> <p>01-4V</p>
Foot rest		<p>Technical details</p> <p>Conductive foot rest made of impact-resistant polystyrene. Corrugated surface with integrated "Trimm-Dich-Rolle" (get fit roll) to help blood circulation. Colour black</p>	<p>Width Depth Height</p> <p>500 x 370 x 100</p>	<p>Order no.</p> <p>01-4E</p>

Dimensions in mm



Storage containers		Technical details Conductive storage containers made of polypropylene. Stackable design for storing and keeping to hand ESD components. Colour black	Width Depth Height 149 x 192 x 105 149 x 250 x 130 186 x 300 x 156	Order no. 01-4A 01-4B 01-4C
Circuit board magazine		Technical details Conductive circuit board storage magazine for the safe storage of conductor boards. No slipping out thanks to the slight inclination. In the case of wet conductor boards the residual liquid drains away through drain holes. Colour black	Width Depth Height 275 x 208 x 93	Order no. 01-4Q
ESD wrist strap		Technical details Conductive, adjustable grounding wrist strap with 1 MOhm protective resistor. Contacting via 10mm Ø push button on table mat or EBP. 1.3m spiral cable, extendable to 2.5m.	Width Depth Height	Order no. 01-4X
Small parts magazine		Technical details ESD small parts magazine with conductive drawers made of polystyrene in a steel plate housing. Colour black	Width Depth Height 48 drawers: 310 x 180 x 550 12 drawers: 300 x 160 x 270	Order no. 01-4P 01-4N
Identification signs		Technical details Identification sign for the ESD workstation. Self-adhesive, highly abrasion-resistant PVC, resistant to cleaning agents. Identification sign made of durable plastic with hanging holes, printing on both sides.	Width Depth Height 120 x 60 500 x 300 Dimensions in mm	Order no. 01-4F 01-4G



Test station



Technical details

Complete test station for checking human grounding via the grounding wrist strap and cable / footwear. For mobile use or as stationary device with wall bracket.

2 measurement ranges:
 Low < 0.9 M Ohms
 High 0.9 ...100 M Ohms

Push button connections:
 4.5 - 7.7 - 10.3mm

Test device complete with contact plate, wall bracket and 9V power supply unit.



Test device
 Contact plate
 Wall bracket

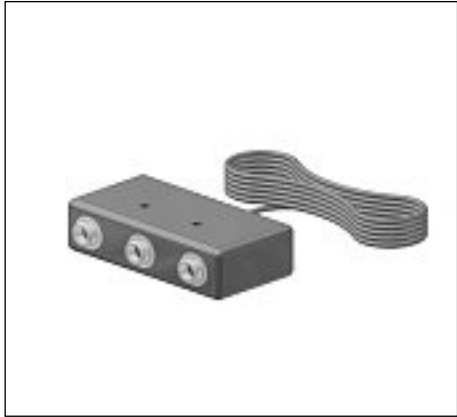
Width Depth Height

140 x	75 x	30
400 x	300	
300 x	210	

Order no.

01-4S

Earth bonding point



Technical details

Earth bonding point EBP with 3 push button connections of 10mm diameter, each with 1 M Ohm protective resistor.

Connecting cable with 4mm cable lug for connecting to the ESD bench frame, mounting material for InForm and EcoTec^{SP} ESD benches



Width Depth Height

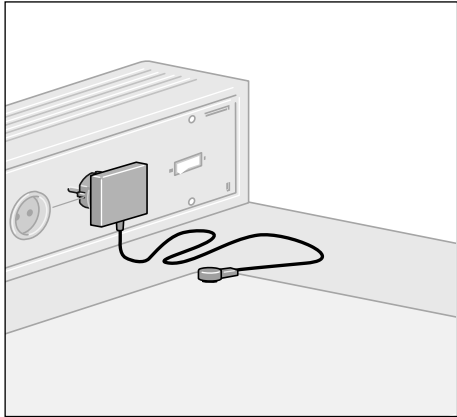
78 x	50 x	23
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Dimensions in mm

Order no.

01-4Z

Earth bonding point



Technical details

Earth bonding point with 1 M Ohm protective resistor.

ESD ground connection via Schuko (type F) socket, push button 10mm Ø for connecting to the table mat.

Cable length 1.5m.



Width Depth Height

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Dimensions in mm

Order no.

01-4Y