ESD area

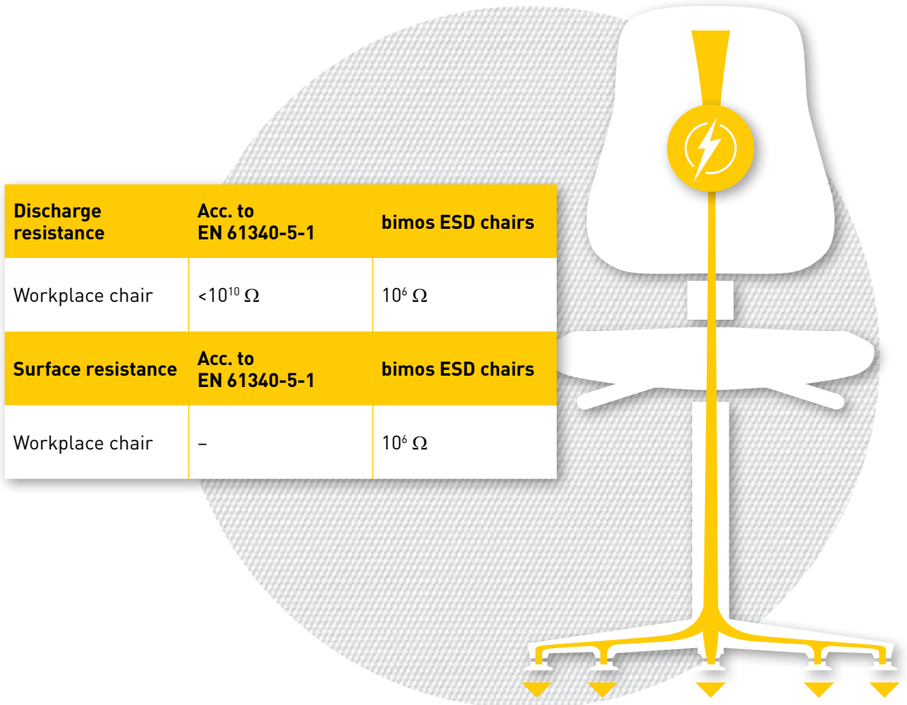
“In the ESD workplace it comes down to relieving tension.“

ESD area

Reliable electrostatic discharge protection for electronic workstations

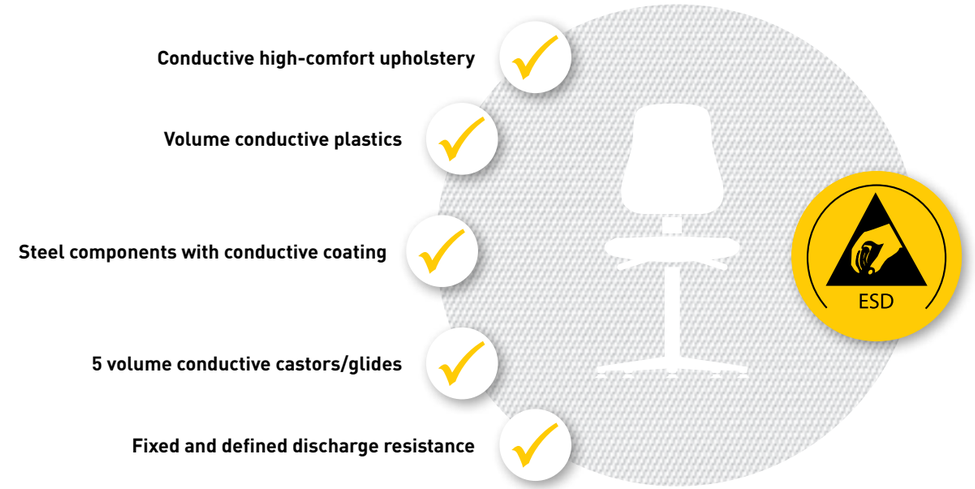
ESD (**E**lectro **S**tatic **D**ischarge) refers to the electrostatic discharge of charged objects or people. Electrostatic discharge can result in damage to microelectronics components. This is because of the minute scale involved which means that the energy from a static discharge has the same impact on a semiconductor as a lightning strike would on a tree. ESD chairs play a crucial role when it comes to ensuring reliable ESD protective measures for electronic workstations.

ESD protection is regulated by European standard EN 61340, which is designed to help users select appropriate protective measures. It stipulates the following in respect of workplace chairs: "The resistance to the point of contact with the floor of any parts of the seat that could come into contact with the user's body during standard use must be $<10^{10}\ \Omega$." (Extract from standard EN 61340-5-1)



Discharge resistance	Acc. to EN 61340-5-1	bimos ESD chairs
Workplace chair	$<10^{10}\ \Omega$	$10^{6}\ \Omega$
Surface resistance	**Acc. to EN 61340-5-1**	**bimos ESD chairs**
Workplace chair	–	$10^{6}\ \Omega$

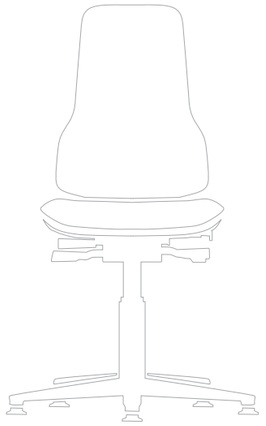
All-round safety: the unique bimos ESD protection features



Consistently exceeding the standard
bimos ESD chairs meet the requirements of standard EN 61340-5-1 as far as their use in EPAs (ESD Protected Areas) is concerned. However, the demands that actually apply in practice are often more stringent even than this. This is because the increasing miniaturisation of electronics components is making them more susceptible to the problem of electrostatic discharge. The most effective way of dealing with this issue is either to prevent charges from occurring in the first place or to ensure that any undesirable charges are safely discharged.

Thanks to the optimum choice of materials and connection technology used, bimos chairs reliably prevent the build-up of electrostatic charges. In addition, the chairs are designed to direct any charges that the user may be carrying safely down to the conductive base as soon as he or she sits down. Thus, bimos ESD chairs offer a fully integrated system of protection.

ESD Neon



New generation workchairs

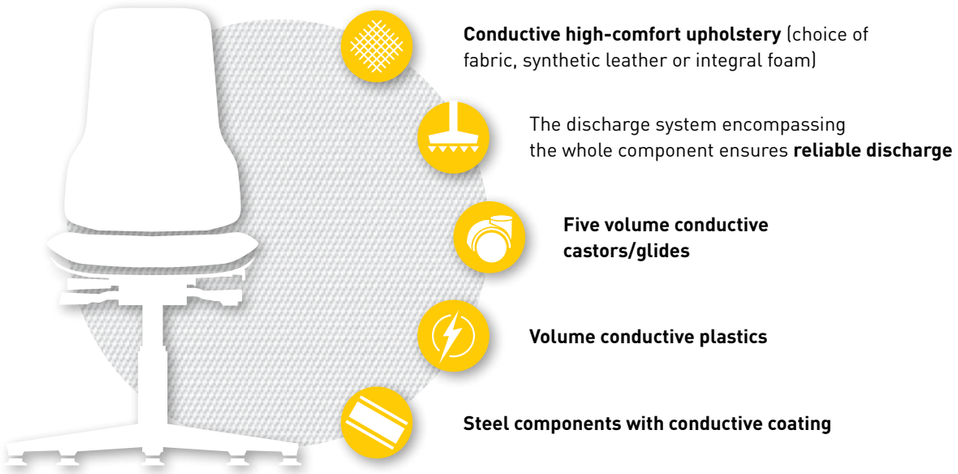
Neon is probably the best workplace chair for ESD areas. Like all bimos ESD chairs, it far exceeds the requirements of the ESD standard EN 61340-5-1. In addition to its outstanding key technical features, the ESD Neon has one characteristic that until now has not been found in the ESD working environment: a focus on the human being. As the most ergonomic and most comfortable ESD chair available, Neon forms a bridge between uncompromising technical demands and enjoyment in sitting. The workplace is an indicator of the value a company places on its employees. A chair that focuses on the needs of people helps to orientate and motivate, it raises the quality and productivity of work. ESD workplaces are always to be found in high-tech companies. This contemporary aspect is also reflected in Neon's design. For the first time with the ESD Neon, a chair is at last available that is really in tune with the work that is carried out on it. ESD Neon is the new generation workplace chair for the new generation of work.

EMAS · ESD · EN 61340-5-1 · DIN 68877 · GS · warranty 5 years

Fraunhofer IAO

German Design Award NOMINEE 2013

The characteristics of the bimos ESD protection system



ESD Neon

Design and materials

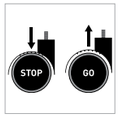
All the plastic and metal parts in ESD Neon are black. The reason for this is because they are conductive, as is every component in the Neon. Plastic too is coated with carbon particles to make it conductive. The most striking feature of ESD Neon is its flex strip. It is made of soft plastic and protects the chair and its environment. There is a choice of three colours for the flex strip. The chair itself consists of solid steel with an aluminium base. Neon is available with a choice of castors with load-sensitive brakes for hard floors, or with abrasion-resistant glides. In addition, for the high version optional Stop&Go castors are available. All glides and castors are volume conductive.

Options

Polished aluminium 5 star base

Accessories (for precise details, see page 141)

Multifunction ESD armrest

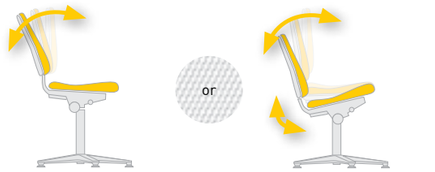


ESD Stop&Go castors

Flex strip colour

	Happy orange	Mars green	Cool grey
Flex strip			
Order no.	3279	3280	3278

Mechanisms (for precise details, see pages 16-17)



Contact backrest

Synchronous mechanism

Ergonomics package (for precise details, see pages 16-17)

Seat height adjustment

Seat tilt adjustment

Seat depth adjustment

Backrest height adjustment

Weight regulation

ESD Neon 1 with glides

Seat height adjustment range: 450 to 620 mm.

Design	Order no.
Permanent contact inc. ergonomics package	9560E-Flex strip colour
Synchronous technology inc. ergonomics package	9570E-Flex strip colour

ESD Neon 2 with castors

Seat height adjustment range: 450 to 620 mm.

Design	Order no.
Permanent contact inc. ergonomics package	9563E-Flex strip colour
Synchronous technology inc. ergonomics package	9573E-Flex strip colour

ESD Neon 3 w. mounting aid and glides

Seat height adjustment range: 590 to 870 mm.

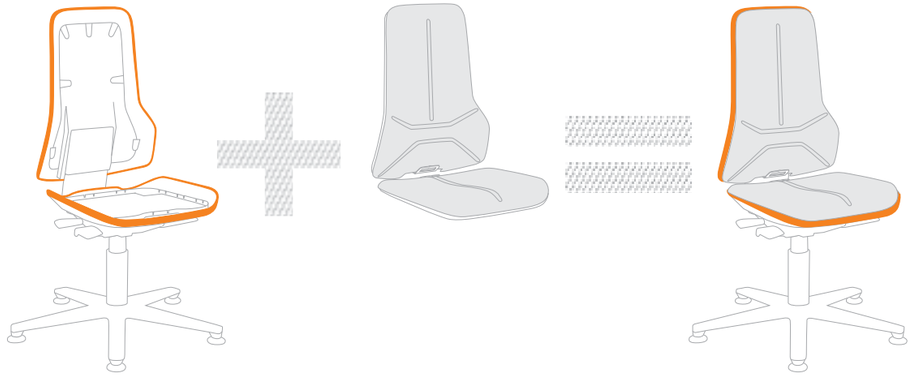
Design	Order no.
Permanent contact inc. ergonomics package	9561E-Flex strip colour
Synchronous technology inc. ergonomics package	9571E-Flex strip colour

ESD Neon

Design and materials

A ESD Neon always consists of two basic elements: the chair and the upholstery. The innovative 1+1 system of ESD Neon allows you to change the upholstery with a single click, so that it adapts to any particular work environment. With the 1+1 system, you order chair and upholstery elements separately (please note that you can only sit on the chair with an upholstery element).

In spite of the high technical demands on material properties in the ESD area, there are three different upholstery variations available for ESD Neon: tough integral foam upholstery which is able to withstand mechanical damage, easy-care synthetic leather that is soft and washable, and robust and breathable fabric upholstery.



Upholstery finish and colour options

Finish	Black	Blue	Grey
Taff fabric			
Order no.	TL01	TL02	TL11
Magic synthetic leather			
Order no.	MG01		
Integral foam			
Order no.	2000		

ESD Neon fabric upholstery

breathable, comfortable, soft, hard-wearing

Design	Order no.
Taff fabric	9588E-Colour no.

ESD Neon synthetic leather upholstery

washable, easy-care, soft and comfortable

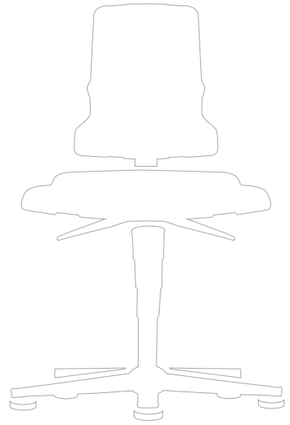
Design	Order no.
Magic synthetic leather	9588E-MG01

ESD Neon integral foam upholstery

extremely robust, durable, washable, able to withstand mechanical damage, resistant to mild acids and alkalis

Design	Order no.
Integral foam	9588E-2000

ESD Sintec



The tried and tested solution for custom seating

ESD Sintec is characterised by its excellent ESD protection properties for maximum reliability: It is manufactured using volume conductive materials and features conductive surfaces. Its superb ergonomic design and individual functions make it the ideal chair for any workplace scenario. ESD Sintec combines perfect support for your workplace tasks with a high level of comfort. The backrest is tapered towards the top, thereby providing more space for moving your arms around. ESD Sintec's replaceable upholstery elements provide maximum flexibility. It is the combination of all these factors that makes ESD Sintec our best selling ESD chair.

EMAS · ESD · EN 61340-5-1 · DIN 68877 · GS · warranty 5 years

The characteristics of the bimos ESD protection system

Conductive high-comfort upholstery (choice of fabric, synthetic leather or integral foam)

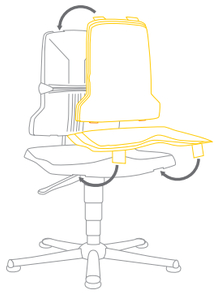
The discharge system encompassing the whole component ensures **reliable discharge**

Five volume conductive castors/glides

Volume conductive plastics

Steel components with conductive coating

Fraunhofer IPA TESTED® DEVICE
Modell 9823E aus Modellreihe ESD Sintec
Report No. IN 9912-165



Easily replaceable seat and backrest upholstery
Various conductive seat and backrest upholstery options are available for ESD Sintec, enabling chairs to be perfectly adapted for any working environment. Changing the upholstery couldn't be easier thanks to the quick and convenient hook-on concept.

ESD Sintec

Design and materials

ESD Sintec is equipped with seat and backrest shells made from volume conductive plastic. The conductive quick-change upholstery means that you can tailor this ESD chair to create the look you want. The chair features a sturdy five-legged base frame with flat lines, which is made from sectional steel tubing. This offers great stability as well as highly reliable electrostatic discharge. All ESD Sintec models are supplied with a black frame.

Mechanisms and functions (for precise details, see pages 16-17)

Contact backrest | Contact backrest with seat tilt adjustment | Synchronous mechanism with weight regulation | Seat height adjustment | Backrest height adjustment

Options

Polished aluminium 5 star base

Seat depth adjustment

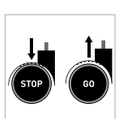
Accessories (for precise details, see page 141)

Ring-shaped armrest

ESD multifunction armrest

Foot ring

Carry handle



ESD Stop&Go castors

ESD Sintec 1 with glides

Seat height adjustment range: 430 to 580 mm.

Design	Order no.
Contact backrest	9800E-1100
Contact backrest with tilting seat	9810E-1100
Synchronous mechanism with weight regulation	9820E-1100

ESD Sintec 2 with castors

Seat height adjustment range: 430 to 580 mm.

Design	Order no.
Contact backrest	9803E-1100
Contact backrest with tilting seat	9813E-1100
Synchronous mechanism with weight regulation	9823E-1100

ESD Sintec 3 with glides and step

Seat height adjustment range: 580 to 850 mm.

Design	Order no.
Contact backrest	9801E-1100
Contact backrest with tilting seat	9811E-1100
Synchronous mechanism with weight regulation	9821E-1100

ESD Sintec

Design and materials

Depending on where they are going to be used, all ESD Sintec workplace chairs can be fitted with fabric, synthetic leather or hard-wearing integral foam upholstery. The upholstery is switched over using a simple hook-on system. This innovative, yet straightforward principle means that you can adapt the chair to the individual workplace scenario. All ESD Sintec replaceable upholstery provides a luxurious level of comfort and offers superb ESD characteristics.

ESD Sintec replaceable upholstery

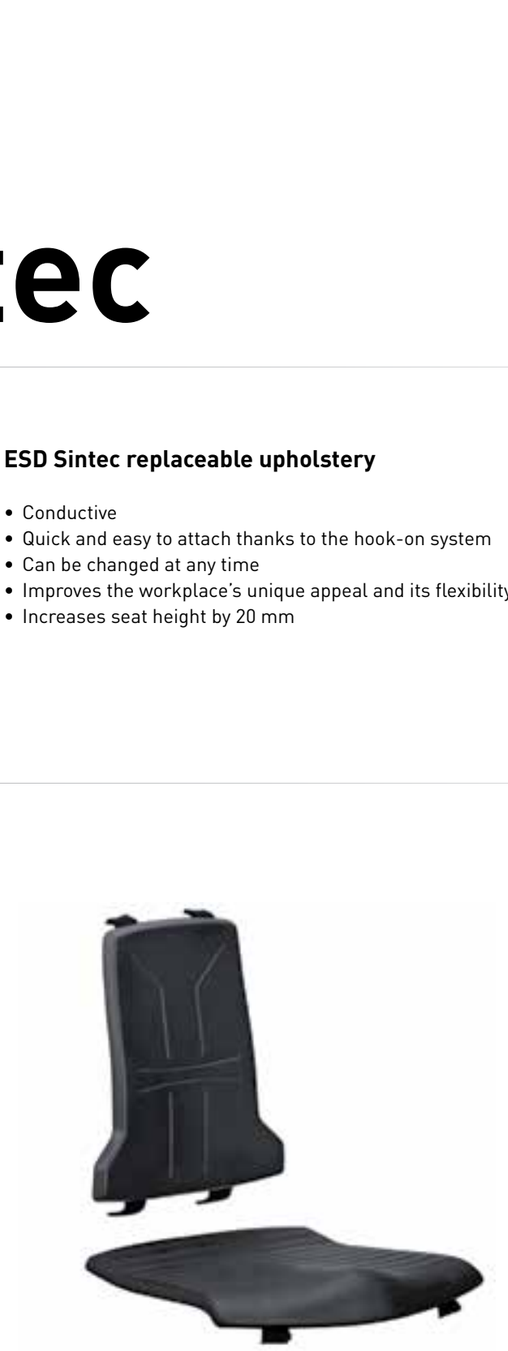
- Conductive
- Quick and easy to attach thanks to the hook-on system
- Can be changed at any time
- Improves the workplace's unique appeal and its flexibility
- Increases seat height by 20 mm

Functions

Upholstery with lumbar pad: Provides exceptional support for your lumbar region.

Upholstery finish and colour options

Finish	Black	Blue	Grey	Red
Duotec ESD fabric				
Order no.	9801	9802	9811	9803
Skai ESD synthetic leather				
Order no.	2571			
ESD integral foam				
Order no.	2000			



ESD Sintec integral foam upholstery

Easy-care, washable and robust covering, resistant to mild acids and alkalis and capable of withstanding mechanical influences. Structured surface for optimum climatic comfort.

Design	Order no.
ESD integral foam, black	9865E-2000

ESD Sintec fabric upholstery

Soft, breathable upholstery consisting of hard-wearing cover fabric.

ESD Sintec synthetic leather upholstery

Non-slip, non-tear Stamskin Top upholstery

Design	Order no.
Duotec ESD fabric	9875E-Colour no.
Skai ESD synthetic leather, black	9875E-2571

ESD Sintec fabric upholst. with lumb. pad

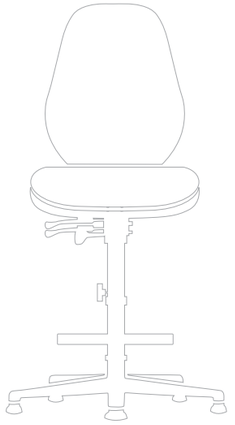
Soft, breathable upholstery consisting of hard-wearing cover fabric.

ESD Sintec synth. leath. upholst. with lumb. pad

Non-slip, non-tear Stamskin Top upholstery.

Design	Order no.
Duotec ESD fabric	9876E-Colour no.
Skai ESD synthetic leather, black	9876E-2571

ESD Basic



The tried-and-tested all-rounder for use in ESD areas

ESD Basic is the low-cost ESD model from bimos which provides excellent value for money: With its ergonomic design, high standard of user comfort and reliable ESD protection system that ensures a discharge resistance in accordance with EN 61340-5-1, it has all the essential attributes of a high-performance workplace chair that has been designed specifically for the electronics industry.

EMAS · ESD · EN 61340-5-1 · DIN 68877 · GS · warranty 5 years

The characteristics of the bimos ESD protection system

Conductive high-comfort upholstery (choice of fabric or synthetic leather)

The discharge system encompassing the whole component ensures **reliable discharge**

Five volume conductive castors/glides

Volume conductive plastics*

Steel components with conductive coating*

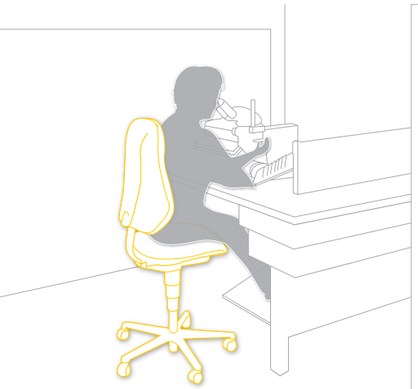
* These features only apply in the case of the ESD plus option.

Available in two different frame colours

Black frame

Light grey frame

ESD Basic



Design and materials

ESD Basic has conductive covers. It features a sturdy five-legged base frame with flat lines, which is made from epoxy-resin coated sectional steel tubing and provides good stability. The frame is available in either black or light grey.

Mechanisms and functions (for precise details, see pages 16-17)

Contact backrest

Contact backrest with seat tilt adjustment

Synchronous mechanism with weight regulation

Seat height adjustment

Backrest height adjustment

Options

Polished aluminium 5 star base

Light grey frame

ESD plus option

Accessories (for precise details, see page 141)

Ring-shaped armrest, black

Ring-shaped armrest, light grey

ESD multi-function armrest

Foot ring

Upholstery finish and colour options

Finish	Black	Blue	Grey	Red
Duotec ESD fabric				
Order no.	9801	9802	9811	9803
Skai ESD synthetic leather				
Order no.	2571			

ESD Basic 1 with glides

Seat height adjustment range*: 470 to 610 mm.

Design	Height of backrest	Order no.
Contact backrest	430 mm	9150E-Colour no.
Contact backrest with tilting seat	530 mm	9154E-Colour no.
Synchronous mechanism with weight regulation	530 mm	9157E-Colour no.

* 20 mm increase in seat height with the synchronous mechanism.

ESD Basic 2 with castors

Seat height adjustment range*: 470 to 610 mm.

Design	Height of backrest	Order no.
Contact backrest	430 mm	9151E-Colour no.
Contact backrest with tilting seat	530 mm	9155E-Colour no.
Synchronous mechanism with weight regulation	530 mm	9158E-Colour no.

* 20 mm increase in seat height with the synchronous mechanism.

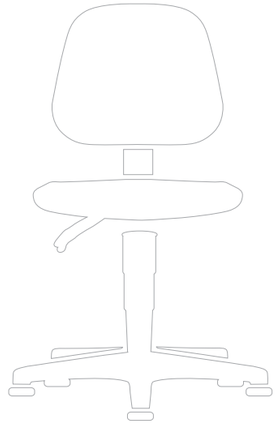
ESD Basic 3 with glides and step

Seat height adjustment range*: 620 to 870 mm.

Design	Height of backrest	Order no.
Contact backrest	430 mm	9152E-Colour no.
Contact backrest with tilting seat	530 mm	9156E-Colour no.
Synchronous mechanism with weight regulation	530 mm	9159E-Colour no.

* 20 mm increase in seat height with the synchronous mechanism.

ESD Unitec



The low-cost solution for solid performance

If you are looking for a budget-priced, basic model for use in ESD areas, ESD Unitec is a straightforward yet solid option. It offers all the standard functions and can be easily adjusted by the user. ESD Unitec is ideal for workplace situations that involve standing up as well as sitting down. Unitec has a generously proportioned seat and a high backrest. Comprehensive discharge capability is not a requirement for many areas. Therefore, ESD Unitec does not feature the conductive plastic components and steel components with conductive coating found on our other ESD models. Nevertheless, there is absolutely no compromise in terms of how the upholstery manages to direct electrostatic charges down to the conductive base.

EMAS ESD EN 61340-5-1 DIN 68877 GS warranty 5 years

The characteristics of the bimos standard ESD protection system

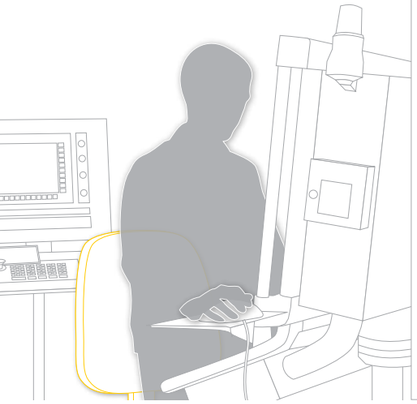
Conductive high-comfort upholstery (choice of fabric or synthetic leather)

Five volume conductive castors/glides

Continuous **conductive connection** running from upholstery down to castors/glides

Standard functions for first-time buyers
- Seat height adjustment
- Backrest height adjustment
- Contact backrest

ESD Unitec

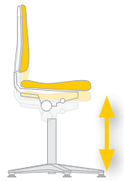


Design and materials

All the ESD Unitec upholstery options have appropriate antistatic properties. ESD Unitec features a sturdy five-legged base frame with flat lines made from sectional steel tubing. The colour of the frame is black.

Mechanisms and functions (for precise details, see pages 16-17)

Contact backrest



Seat height adjustment

Backrest height adjustment

Accessories (for precise details, see page 141)

Ring-shaped armrest

Foot ring for Unitec

Finish and colour options for seat and backrest

Finish	Black	Blue	Grey	Red
Duotec ESD fabric				
Order no.	9801	9802	9811	9803
Skai ESD synthetic leather				
Order no.	2571			

ESD Unitec 1 with glides

Seat height adjustment range: 440 to 590 mm.

Design	Order no.
Duotec ESD fabric	9650E-Colour no.
Skai ESD synthetic leather, black	9650E-2571

ESD Unitec 2 with castors

Seat height adjustment range: 440 to 590 mm.

Design	Order no.
Duotec ESD fabric	9653E-Colour no.
Skai ESD synthetic leather, black	9653E-2571

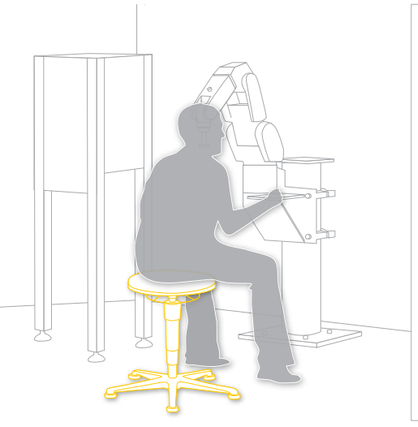
ESD Unitec 3 with glides and foot ring

Seat height adjustment range: 580 to 850 mm.

Design	Order no.
Duotec ESD fabric	9651E-Colour no.
Skai ESD synthetic leather, black	9651E-2571

ESD Stools, ESD Footrests

EMAS · ESD · EN 61340-5-1 · DIN 68877 · GS · warranty 5 years



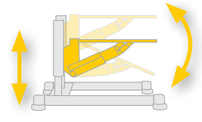
Industrious assistants

Some of the tasks associated with ESD areas call for elevated seating positions or require workers to stand for long periods or to alternate between standing up and sitting down. As a result, their bodies are often subjected to a great deal of physical stress. bimos has the answer to these requirements: stools and footrests suitable for ESD areas that support the human body and relieve physical stress.

Stool functions

Seat height adjustment based on pneumatic spring system with easy ring control

Footrest functions



Pedal buttons enable convenient footrest adjustment while seated

Stool options

Polished aluminium 5 star base

Finish and colour options for seat (stools)

Finish	Black	Blue	Grey	Red
Duotec ESD fabric				
Order no.	9801	9802	9811	9803
Skai ESD synthetic leather				
Order no.	2571			

ESD stool

With conductive fabric or synthetic leather upholstery. Conductive castors or glides.

Design	Seat height	Order no.
with glides	460 – 630 mm	9467E-Colour no.
with castors	460 – 630 mm	9468E-Colour no.
with glides and foot ring	570 – 850 mm	9469E-Colour no.

ESD Footrests

Height adjustment range: 100 to 340 mm.
Tilt adjustment range: 8° to 25°.
Conductive rubber tread.

Design	Order no.
Conductive glides	9455E-217