

# Cleanroom Basic

## The tried-and-tested all-rounder for use in cleanrooms

An ergonomic design, superb cleanroom properties and reliable ESD measures are a lot to ask from a workplace chair. Yet Cleanroom Basic meets all these criteria and offers a high level of quality in the process. The fact that the chairs have to pass a comprehensive series of tests before they are awarded a test certificate and prove themselves in extreme working environments means that our claims of quality are not just empty words.

## Fraunhofer confirms the chairs' suitability for cleanrooms

The Fraunhofer IPA seal of approval certifies that Cleanroom Basic chairs are suitable for use in cleanrooms in compliance with the following standards:

- Air cleanliness classification 3 pursuant to DIN EN ISO 14644-1
- Air cleanliness classification 1 pursuant to US Fed. St. 209 E
- Provisions of the EU GMP guidelines
- Electrostatic discharge measures pursuant to EN 61340-5-1



## Cleanroom properties



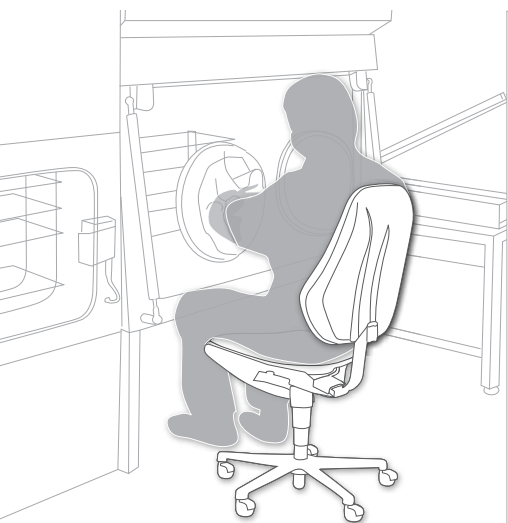
The smooth, sealed surfaces of the seat and backrest shells prevent swirl even when there is a constant flow of air through the filter system and stop the build-up of particles on the chair.

The synthetic leather, upholstery and upholstery support are permanently bonded using special foam technology to ensure that no particles can be emitted.

All bimos cleanroom chairs feature electrostatic discharge measures in accordance with EN 61340-5-1 and offer reliable antistatic protection.

The chairs are supplied with a brilliantly polished and abrasion-resistant aluminium 5 star base. The seat support and backrest cover are made of plastic.

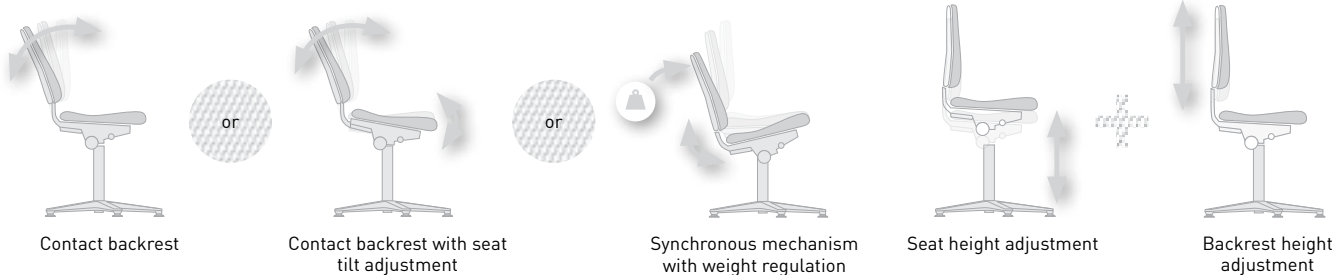
# Cleanroom Basic



### Design and materials

The base frame, which is made from die-cast aluminium, is brilliantly polished and is supplied with conductive castors/glides for hard floors. The non-tear synthetic leather cover, which is also conductive, has non-slip properties and ensures a firm grip even when the user is wearing smooth cleanroom clothing.

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



### Options



Mushroom  
glides

### Accessories (for precise details, see page 141)



Ring-shaped  
armrest




Multifunction  
armrest



Foot ring

### Upholstery finish and colour options

Finish	Black
Skai ESD synthetic leather	
Order no.	2571

### Cleanroom Basic 2 with castors

Seat height adjustment range\*: 470 to 610 mm.

Design	Height of backrest	Order no.
Contact backrest	430 mm	9140-2571
Contact backrest with tilting seat	530 mm	9142-2571
Synchronous mechanism with weight regulation	530 mm	9145-2571

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

### Cleanroom Basic 3 with glides and step

Seat height adjustment range\*: 620 to 870 mm.

Design	Height of backrest	Order no.
Contact backrest	430 mm	9141-2571
Contact backrest with tilting seat	530 mm	9143-2571
Synchronous mechanism with weight regulation	530 mm	9146-2571

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



# ESD-GETESTET ESD REINRAUM BASIC

ESD Reinraum Basic zeichnet sich mit herausragenden Eigenschaften für zuverlässigen ESD-Schutz aus und kann Personenauf Ladungen zuverlässig und sicher zum leitfähigen Bodenbelag oder zur Bodenmatte ableiten.

ESD Reinraum Basic erfüllt die Anforderungen der DIN EN 61340-5-1 und ANSI/ESD S20.20-2021 für den Einsatz in EPAs (ESD-protected areas).

Typischer Ableitwiderstand  $R_{gp} = 10^5 - 10^7 \text{ Ohm}$  

# ESD-TESTED DEVICE ESD CLEAN ROOM BASIC

The ESD Clean Room Basic is characterised by reliable ESD protection properties. It drains static charges safely, continuously and passively from seated personnel when used in conjunction with conductive flooring or floor mats.

The ESD Clean Room Basic series fulfils the requirements of DIN EN61340-5-1 and ANSI/ESD S20.20-2021 relating to use in EPAs (ESD protected areas).

Typical resistance to groundable point  $R_{gp} = 10^5 - 10^7 \text{ ohm}$  



Helmut Link  
Geschäftsführender  
Gesellschafter



Joachim Link  
Geschäftsführender  
Gesellschafter



# Fraunhofer

## TESTED<sup>®</sup> DEVICE

Modell 9140 aus Modellreihe  
Reinraum Basic  
Report No. IN 9912-165

Qualifizierungs-  
bescheinigung

Certificate of  
qualification



**Fraunhofer** Institut  
Produktionstechnik und  
Automatisierung



# Qualifizierungsbescheinigung

## Certificate of qualification

**Hersteller des Prüflings:****Manufacturer of object to be tested:**

bimos Sitztechnik interstuhl Büromöbel GmbH & Co. KG  
Brühlstraße 21  
D-72469 Meßstetten-Tieringen

**Untersuchte Komponenten:****Component tested:**

Reinraumdrehstuhl  
cleanroom swivel chair

**Typenbezeichnung:****Type:**

Modell 9140 aus Modellreihe Reinraum Basic  
Model 9140 of the model series Basic

**Testparameter Prüfling:****Test parameters of object to be assessed:**

Schwellbelastung der Sitzfläche des Reinraumstuhls mit einer Kraft von 1000 N bei 12 Hüben pro Minute  
Pulsating stress of the seat of the cleanroom chair 12 times per minute with a force of 1000 N

Schwellbelastung der Rückenlehne des Reinraumstuhls mit einer Kraft von 350 N bei 12 Hüben pro Minute  
Pulsating stress of the back of the cleanroom chair 12 times per minute with a force of 350 N

**Art der Untersuchung:****Performed tests:**

Stichprobenartige Partikelemissionsmessungen an repräsentativen Stellen  
Random check measurements of particle emission at representative points

ESD-Untersuchungen (elektrische Feldstärke, Ableitwiderstand) an repräsentativen Stellen  
Electrostatic discharge measurements (electric field strength, electrical conductive resistance) at representative points

**Untersuchungsergebnis/Klassifizierung:****Test results/classification:**

Prüfling ist für den Einsatz in Reinräumen der Luftreinheitsklasse 1 (nach US Fed. Standard 209E) geeignet  
The above-mentioned test piece is suitable for use in cleanrooms fulfilling the specifications of Cleanliness Class 1 (according to US Fed. Standard 209E)

Prüfling erfüllt die ESD-Anforderungen (nach DIN EN 100 015-1 und IEC 61340-5-1)  
The above-mentioned test piece fulfills the ESD requirements (according to DIN EN 100 015-1 and IEC 61340-5-1)



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**Zugrundegelegte Standards/Richtlinien:  
Standards used for the qualification:**

US Federal Standard 209E  
DIN EN 100 015-1  
IEC 61340-5-1

**Testparameter der Prüfumgebung:  
Test parameters of the test environment:**

Reinraum der Luftreinheitsklasse 1 (nach US Federal Standard 209E)  
Cleanroom of Cleanlines Class 1 (according to US Federal Standard 209E)

Luftströmungsgeschwindigkeit: 0,45 m/s  
Air flow velocity: 0.45 m/s

Strömungsführung: vertikale laminare Strömung von oben nach unten (Doppelboden)  
Air flow guidance: vertical unidirectional air flow from ceiling to floor (raised floor)

Temperatur: 22°C ± 0,5°C  
Temperature: 22°C ± 0.5°C

Relative Feuchte: 45% ± 5%  
Relative humidity : 45% ± 5%

Die für die Qualifizierung verwendeten Meßeinrichtungen werden regelmäßig kalibriert und sind auf nationale und internationale Normale rückführbar. Sofern keine nationalen Normale existieren, entspricht das Meßverfahren den derzeit gültigen technischen Regeln und Normen. Die für diesen Vorgang angefertigte Dokumentation kann bei Bedarf eingesehen werden.

The measuring equipment used for the qualification is regularly calibrated and is based on national and international standards. In the case where no national standards exist, the measuring procedure used corresponds with technical regulations and norms valid at the time of the measurement. The documents drawn up for this procedure are available for viewing.

Fraunhofer Institut  
für Produktionstechnik  
und Automatisierung

Abteilung Reinst- und Mikroproduktion  
Department Ultra-pure and Cleanroom Manufacturing

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Stuttgart, 09. Dezember 1999

Ort, Datum:  
Place, date:

E. A. P. Matyska

Unterschrift Bearbeiter:  
Signature of person responsible:



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# bimos



ONDERNEMING

PRODUCTEN

Technische wijzigingen voorbehouden. Druktechnische wijzigingen zijn mogelijk.  
Dit product bestaat uit FSC®-gecertificeerde en andere gecontroleerde materialen.  
01/25: 2WTX\_PRO01\_NLNL



bimos.com/bimos-texon