



# HIGH-TECH SEATING

Precision-Designed,  
Performance-Tested



The right chair for the job rarely means just any chair. So, it only stands to reason that choosing seating specifically made for cleanroom or ESD applications should be standard practice. The science behind the construction is where it starts.

## Good. Better. BioFit.

BioFit precision-designed and performance-tested chairs are true products of their environment. Each is manufactured to provide the ideal combination of form and function, offering features that include 5-star bases for stability, a range of seat height ranges for desk-, bench- and standing-height work, footrings or rests on bench-height models, and control functions, including height, tilt, seat and backrest adjustments.



### Cleanroom Seating that Doesn't Cut Corners

BioFit chairs built for the cleanroom offer the same reliability and comfort benefits as their office-built counterparts but go many steps further in addressing technical user- and task-oriented ergonomic requirements while featuring key components and design processes to minimize the release of unfiltered air, off-gassing and particle shedding. On higher classifications, all metal parts are chrome- or zinc-plated to prevent particle rub-off while in use.

*Note: Components, finishes and technologies selected for a particular cleanroom chair will vary based on the ISO rating the specifier needs to achieve. For example, an ISO 6 chair may allow air from the seat to be filtered and then released into the room, while an ISO 4 chair will require all air to be captured inside the seat. Many specialized work environments may call for combination cleanroom/ESD seating.*

### Take 5 for Contaminant Control:

Chairs in extremely strict ISO cleanroom classes feature an under-seat airflow-exchange system, featuring an air reservoir encased in a protective pan. When a user sits in the chair, the air in the seat cushion discharges into the reservoir and does not escape into the surrounding environment.

1. Non-shedding vinyl upholstery
2. Adhesive-sealed backrests to prevent air leakage
3. Seats with filtered air escape opening or breather bag system
4. Chrome- or zinc-plated metal parts
5. Capped pneumatic cylinders to prevent inadvertent discharge of gas or particles





## BioFit ESD Seating: Better from the Ground Up

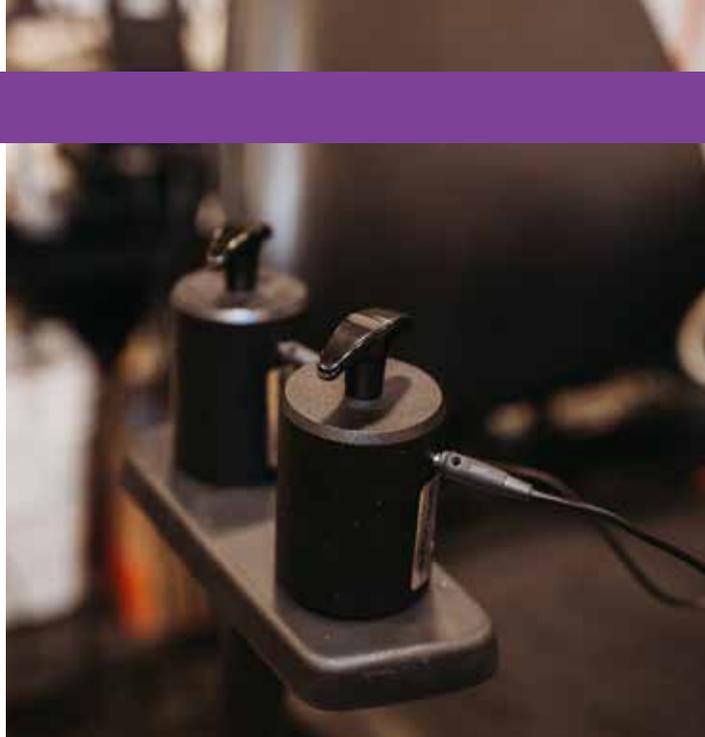
BioFit chairs not only address the specifics of the electrostatic-control environment in which they will be used, but also the ergonomic needs of users themselves. Many models feature a fully encased backrest and vinyl upholstery, along with all the other standard ergonomic features that factor into the equation, including lumbar support and adjustability controls within easy reach.



## Taking Quality to Task

For decades, electrostatic-sensitive areas in hospitals, munitions factories, and electronics manufacturing have been ground zero for ESD seating. BioFit chairs made for these settings use proprietary components and drag cables proven to dissipate charges through the back, seat, base, and pneumatic controls, as well as through the casters and/or glides touching flooring surfaces.

1. Upholstery that is tested and certified to meet facility-/application-specific static-control requirements (examples include electrostatic-dissipative vinyl, carbon or stainless-steel woven cloth upholstery or carbon-impregnated upholstery with interior strip or mesh to provide continuity of electric conductance)
2. Backrest with conductive polypropylene rear panel
3. Arms grounded through mounting bracket
4. All-metal seat control support bracket to provide conductive continuity
5. Spring-loaded contact ball bearing assembly ensures continuity through insulative plastic bushing of the pneumatic mechanism of the chair
6. Five-legged metal base
7. Conductive casters or glides
8. Drag cable to assure continuity from the chair to the ground



## Other Seating Selection Considerations

Upholstery materials used in the seat and back determine the level of conductivity. BioFit offers several options, including covering the underside of the seat with highly conductive black vinyl. For cleanroom applications that also require static control, our Microcon Vinyl meets requirements for both, with the added benefits of being phthalate- and fire-retardant-chemical-free.

