



**Professional  
Textile Envelope  
Clean Tent**

Process protection, just as you need it.



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## What makes ProTECT special?

### Individual solutions:

ProTECT offers a protection concept that is precisely tailored to the specific process requirements of our customers.

### Versatile air routing concepts:

Choose from different air guidance systems - horizontal, diagonal or vertical - to suit your requirements.

### Maximum flexibility:

Thanks to its modular design, ProTECT can be easily adapted and expanded to grow with your processes.

### Efficient assembly and dismantling times:

ProTECT enables quick installation and dismantling, minimizing downtime.

### Focus on sustainability:

ProTECT is resource-saving and reusable, which protects the environment and budget in the long term.

### Standalone system

with single interface power supply

## Possible areas of application for ProTECT:



### Unclear investment decision:

If a product or process requires a cleanroom protection concept, but it is not yet clear whether it is worth investing in a stationary cleanroom.



### Temporary solutions:

For tasks such as maintenance, repair or installation where a cleanroom protection concept is only needed temporarily.



### Quick assistance in the event of an accident:

ProTECT offers a quick solution when a replacement cleanroom is needed in an emergency.



### Übergangsweise Optimierung:

If an existing cleanroom needs to be temporarily adapted, for example to realize ISO 5 conditions (in accordance with ISO 14644-1) in an ISO 8 environment.



### Transitional optimization:

For processes that need to be individually shielded within an existing cleanroom.

Guarantee cleanliness class inside, product protection, cleanliness class outside, infrastructure protection.



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## Important aspects for common definition with the user

### Cleanliness requirements:

- Which cleanliness class is required?
- For which object?
- At which location?
- At what time and over what period of time?

### Process analysis:

- What work or processes will take place on the property during the defined period?
- Is special handling required, such as the use of a crane or setting up airlocks?
- Cleaning and inserting equipment (variable cleanliness class)

### Building condition:

- What actual structural condition is available at the site?

### Critical factors:

- Which aspects have the highest priority? (e.g. cleanliness, time management, flexibility)

### Budget framework:

- What cost budget is available for the operation?

### Availability:

- What time and personnel resources are available?

**ProTECT is your solution  
for your cleanroom processes!**





## We are Hanselmann...

Hanselmann GmbH is a large, generation-led company that offers customers customized support solutions at the highest level. We are problem solvers and have the necessary know-how as well as the tools and equipment to solve your application differently, but better.

We are experts in mechanical and plant engineering, the pharmaceutical, optical and aerospace industries. You can manage your projects live via our specially developed Hanselmann app. There you will find your stored machines and system parts - all digitally. Thanks to our modular cleanroom system, we are flexible and can create a cleanroom with the highest cleanliness requirements anywhere. We optimize processes to offer you sustainable added value.

### As part of the ProTECT projects, Hanselmann is responsible for the following areas:

In the ProTECT joint project, we play a central role as a versatile generalist.

We act as an all-rounder with expertise and are responsible for the entire process chain - from administration and financing to design, procurement, production, storage and pre-assembly through to cleaning, packaging, logistics, integration, documentation and maintenance.

We also offer ProTECT products both for rent and for purchase.

Our holistic approach ensures maximum efficiency, quality and reliability at every stage of the project.





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## We are Dastex...

Dastex Group is one of the leading European suppliers of cleanroom garments and cleanroom consumables, such as gloves, wipes, disposable garments, disinfectants etc. with more than 45 years of experience in the industry.

Dastex attaches great importance to ensuring that the products offered and supplied to customers are optimized for the respective process conditions and optimized.

An extensive product portfolio covers both standard solutions but also offers the possibility of implementing customized solutions at any time. The in-house R&D department is an important part of the company's philosophy, with the aim of constantly improving and, if necessary, expanding the product range.

**As part of the ProTECT projects, Dastex is responsible for the following areas:**

**Customized textile elements:**

Dastex manufactures and supplies all the necessary textile components for your cleanroom, including walls, ceilings, hoses and more - individually tailored to your requirements.

**Comprehensive equipment:**

On request, Dastex can supply users of the modular cleanroom tent with all the necessary consumables.

This includes cleanroom clothing, gloves, wipes, cleaning equipment and other products that are essential for the operation of a cleanroom.





## We are QleanAir...

QleanAir Scandinavia has more than 30 years of experience providing innovative air cleaning solutions for sustainable indoor environments. Good indoor air quality is imperative to ensure a healthy and safe working environment for people, secure product quality, and improve process performance. QleanAir has gained global recognition with our product portfolio, which consists of standalone air cleaners, turnkey modular cleanrooms, and cabins that offer protection from second-hand smoke.

QleanAir Scandinavia also stands for the development of high-quality, process-orientated solutions for a wide range of applications in controlled areas. The air cleaners and filter cubes supplied by QleanAir are especially designed for flexible and temporary ISO environments.

### **As part of the ProTECT projects, QleanAir is responsible for the following areas:**

As part of the ProTECT projects, QleanAir provides state-of-the-art air filtration systems and extensive expertise in filter technology and fan systems.

Through innovative technologies and tailored solutions, QleanAir helps ensure optimal air quality and safe environments.





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## We are Merkle...

Merkle CAE Solutions GmbH brings precision, efficiency, and safety to cleanroom technology. Within the consortium, we are responsible for numerical CFD simulations and structural safety verification, which form the foundation for the successful implementation of cleanroom projects.

### Our Simulations

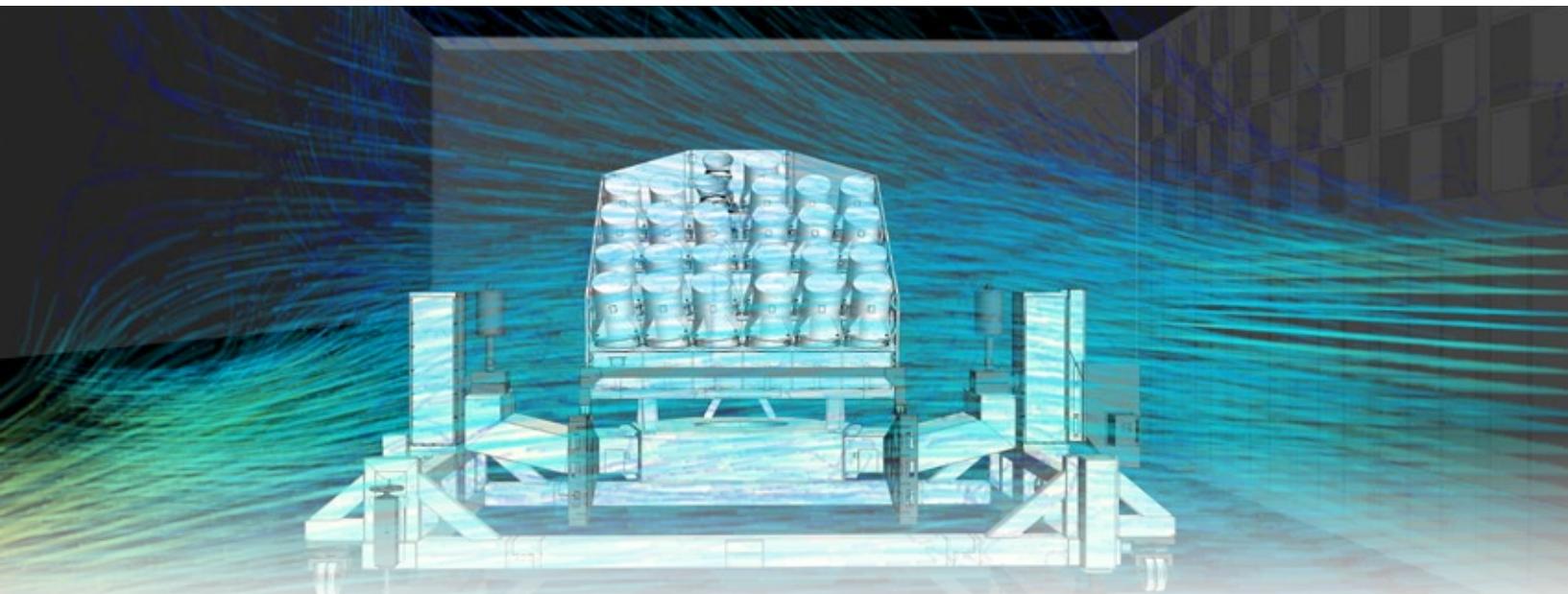
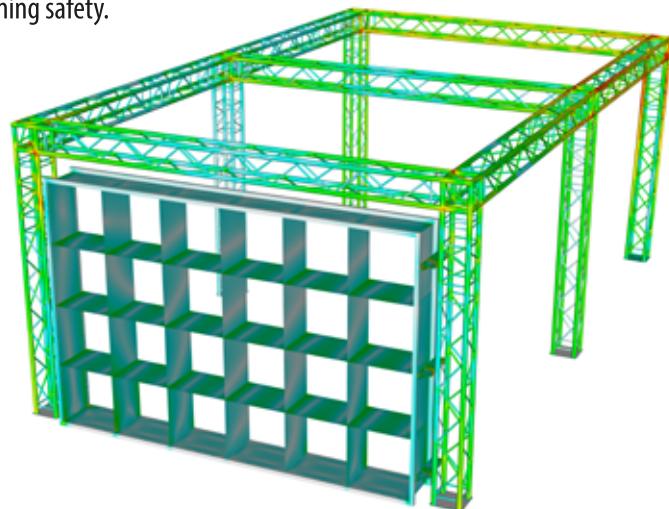
- Analyze and optimize airflow in the cleanroom,
- Consider various operational scenarios, such as the movement of personnel and objects,
- Ensure the highest cleanliness standards from the very beginning, and
- Guarantee structural safety.

### As part of the ProTECT projects, Merkle CAE is responsible for the following areas:

As a reliable partner, we contribute significantly through our expertise to ensuring that the cleanroom fulfills its function as a protective environment for sensitive technology, such as the cameras of the ESA-PLATO mission, while maintaining safety.

### Simulation as the Key to Perfection!

Learn more about our innovative work in a personal conversation!





**C3-TENT**

Contamination Control Compartment



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## We are C3...

The Cleanliness Competence Center, a spin-off from OHB System, transfers space expertise to new areas.

A pain sheet defines the problem, followed by a requirements profile, verification methods and solution approaches.

Project management coordinates implementation, qualification and documentation.

### As part of the ProTECT projects, C3 is responsible for the following areas:

C3 combines aerospace system engineering, project management and quality. All tasks can be realized through structured cooperation between clients and the right network of experts. The decisive factor is the transparent the right questions at the right place and to derive solution-oriented answers/consequences accordingly.

### Our Partner:



With maximum precision and decades of experience, we ensure that sensitive environments remain absolutely clean and safe. But we don't just see ourselves as cleanroom cleaning experts. We are part of the Dorfner Group - a company which was founded in 1949 as a small cleaning company in Nuremberg and is now an international multi-service provider.



Elis Cleanroom, Europe's leading service provider for the cleanroom-compatible decontamination of cleanroom textiles supports the various C3 and ProTECT concepts as a partner. Our task here is the proper preparation of the textile elements of the ProTECT projects.

## Do you have any questions?

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**Find out more about  
our cleanroom system:**

