



SCHILLING ENGINEERING  
Cleanroom Technology. From planning to qualification

**SCHILLING**  
**ENGINEERING**  
Industrial Handling  
Cleanroom Systems



## Turnkey System Solutions

... from planning to qualification.  
SCHILLING ENGINEERING GmbH develops and produces high-quality cleanroom system solutions. Our company boasts over 25 years of experience and is among the leading specialists in cleanroom technology today. Integration of our know-how right from the start guarantees reliable planning and design in every project phase. Our engineers work closely with our customers to develop tailored solutions. Cleanroom systems are installed, tested and handed over as turnkey solutions by our service technicians on-site. Final qualification and certification are carried out to ensure smooth and reliable production start-up.



SCHILLING ENGINEERING – always one idea cleaner

Specific customer needs demand individual solutions. The diversity and flexibility of our brand-name products are key to our ability to provide on-time, reliable and low-cost cleanroom solutions for every industry and production need.

Our cleanroom systems are built using a modular system and can be expanded and reconfigured flexibly. High-quality materials, special seals and an innovative air circulation process ensure the consistent quality of cleanroom air and meet the strict requirements of ISO standards and GMP guidelines.

Setting the standards in cleanroom technology

**CleanCell 4.0®**  
**CleanMediCell®**  
**CleanSteriCell®**  
**CleanBarrierCell®**  
**CRControl®**

Cleanroom Systems  
Airhandling Systems  
Changing Rooms  
Monitoring  
Control systems



- High-level tightness
- Innovative air circulation
- Cost-saving laminar flow modules
- Energy-efficient systems
- LED lighting



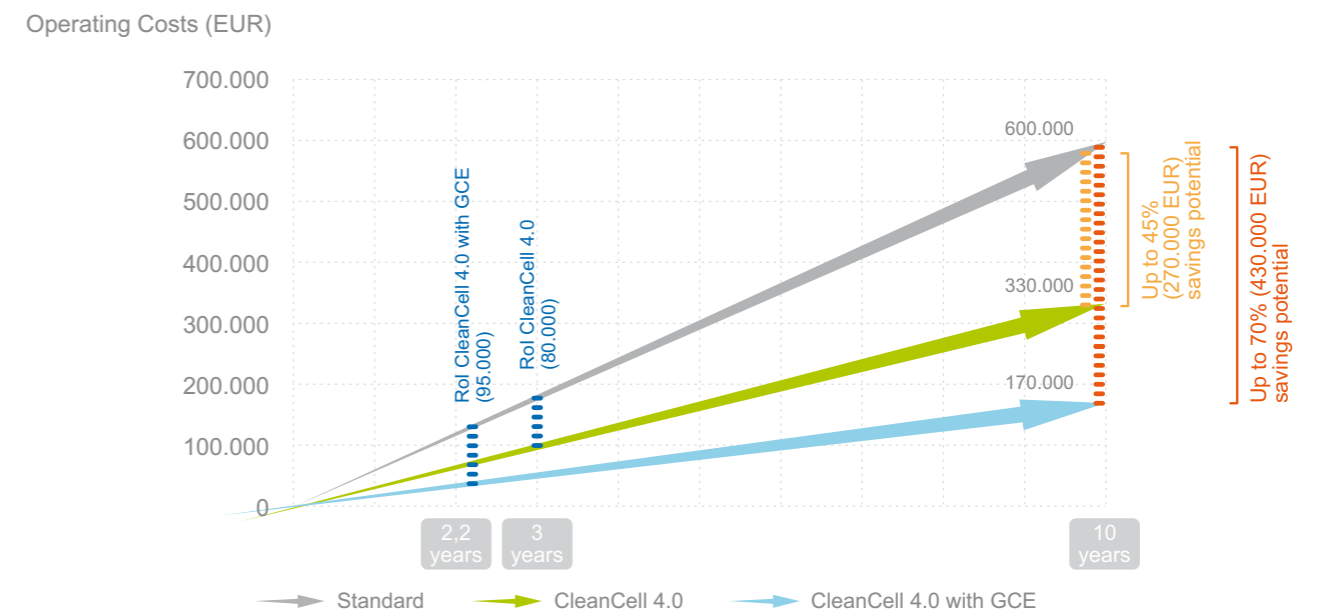
## GREEN CLEANROOM®

### Green Cleanroom – Energy-efficient cleanroom systems

By combining innovative air circulation technology, high-quality seals and an user-controlled regulation, the CleanCell systems from SCHILLING ENGINEERING have significantly lower energy consumption than comparable cleanroom systems.

### Compare energy and maintenance costs

Between standard cleanroom, CleanCell4.0, CleanCell4.0 with Energy-Management-System (GCE)  
Example of 100m², ISO class 7, including air conditioning system



CleanCell cleanroom systems have significantly lower energy and maintenance costs than conventional cleanroom systems. The savings potential is up to 45%, with GreenCleanroom Energy-Management-System it can be as high as 70%. A higher initial investment pays for itself after 3 years of operation, but with GCE after 2.2 years of operation (RoI).

## SCHILLING ENGINEERING – Innovative, modular, economical



- Wall and ceiling modules are connected by our patented GMP sealing clip system without the use of silicone
- Our innovative air circulation technology guides filtered, cooled air inside the walls, through the ceiling plenum and back into the cleanroom

- We use only energy-efficient, low-maintenance ULPA 15 high-performance filters
- A usage-based control system regulates the supply of clean air based on capacity utilisation and the measured degree of contamination
- The exact balancing of all cleanroom components, including the air conditioning systems, by the CR Control® control module, prevents energy losses
- Our patented LED lights provide cost-effective, pleasant lighting
- The patent-pending **GreenCleanroom Energy-Management-System** combines an extremely energy-efficient air-conditioning system with heat recovery/heat pump. Cold water production and heating of the clean room system can be replaced completely.





## Brand-name quality

**CleanFlowCell®**  
**CleanProCel®**

Cabins  
Tents  
Laminarflow Systems  
Table Units  
Working Benches

**CleanAutomation®**  
**CleanPac®**  
**CleanTrans®**  
**CleanRobot®**

Automation Systems  
Packaging Systems  
Transfer Systems  
Robots

Besides supplying complete cleanroom systems that meet the standards of the highest cleanroom classes, we offer cleanroom cabins, cleanroom production cells, laminar flow workstations, mini-environments and cleanroom automation solutions. Accessories such as airlocks, furniture and clothing perfectly complement our product range.



## SCHILLING ENGINEERING – Quality with a system



As one of the leading manufacturers of cleanroom systems, we know the details and requirements involved in working in cleanrooms. We support our customers before, during and after setup of the cleanroom systems, working out a safe, reliable, functional concept that even includes the furniture, clothing and other accessories. Our broad, high-quality assortment is specifically designed for use in cleanrooms.

## Cleanroom accessories





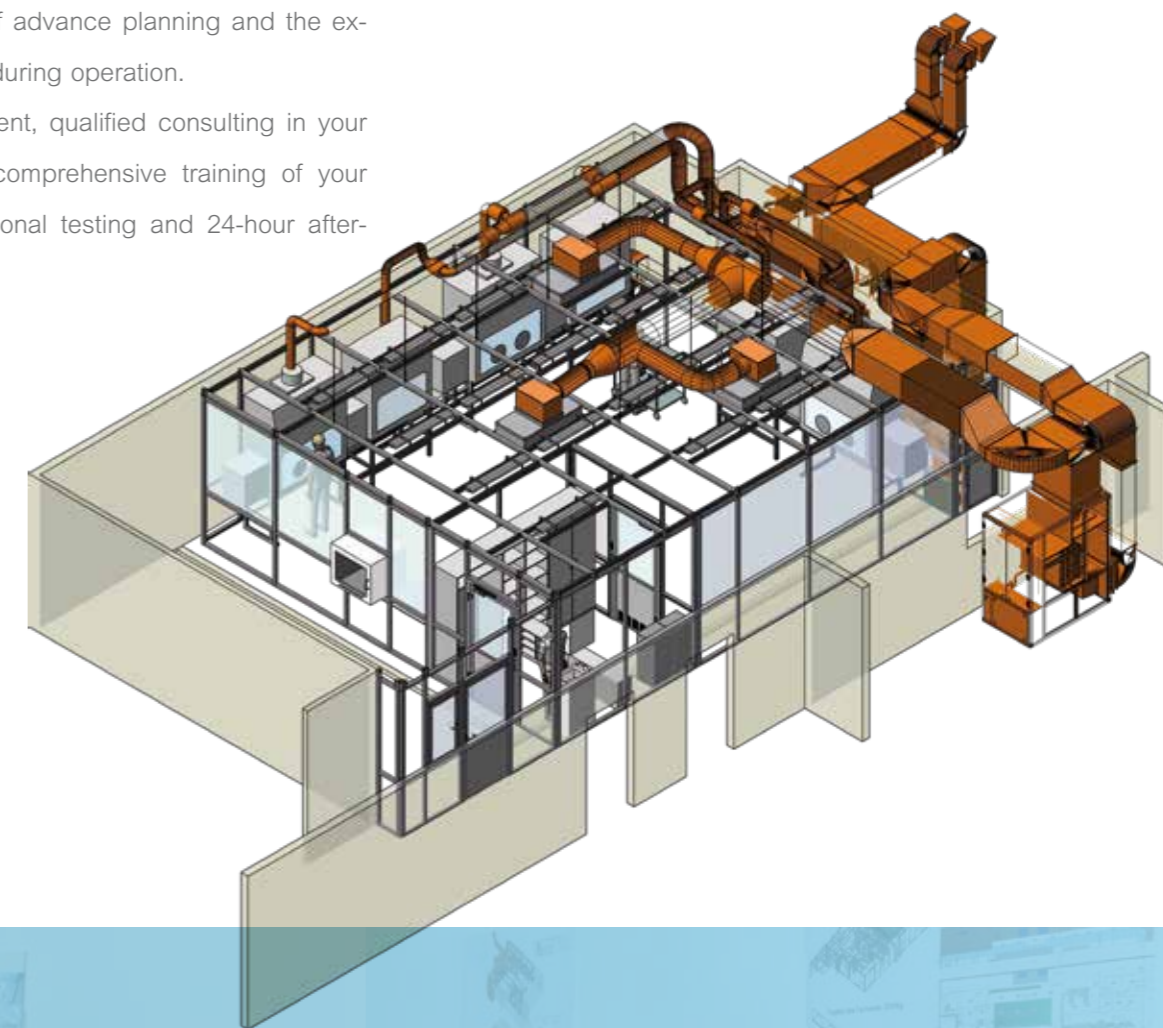


## Services

The success and efficiency of a cleanroom system rely largely on the quality of advance planning and the expert use of the system during operation.

We offer you independent, qualified consulting in your investment decisions, comprehensive training of your staff, quality and functional testing and 24-hour after-sales service.

- Consulting
- Training
- Engineering
- Qualification
- Maintenance
- Service



With SCHILLING ENGINEERING you are always on the safe side

## Control system CRControl® 4.0



Our innovative control and monitoring system CR Control® 4.0 features user-friendly and clear operation via a central monitor with touch screen.

- Control, regulation, monitoring and recording of all functions:
  - Cleanroom technology
  - Lock systems
  - Air-conditioning technology
  - Energy-Management-System
  - Monitoring
- Siemens 15" and 7" touchscreen
- Visual display of all operating states
- Remote service
- Measurement and monitoring (particles, humidity, pressure, temperature, filters)
- Intuitive user guidance, clear warning messages
- Integration of air conditioning systems and the customer's other process systems
- Location-independent operation by tablet and smart phone







SCHILLING ENGINEERING – purely a matter of trust



### From consulting to after-sales service

We want our customers to be satisfied. In addition to the use of high-quality technology and materials, we also make service a top priority.

Comprehensive advice and extensive quality and functional tests on-site are just as integral to our company as rapid round-the-clock customer service.

We are here for you – you can count on it!



Pharmaceutical industry  
Medical technology  
Biotechnology  
Clinics  
Pharmacies  
Blister centres  
Cytostatics laboratories  
Cosmetics industry  
Semiconductor industry  
Automobile industry  
Display fabrication  
Microtechnology  
Nanostructural engineering  
Optical industry  
Laser technology  
Data medium technology  
Solar industry  
Food technology  
Packaging technology  
Air & space technology

**SCHILLING ENGINEERING**  
**Cleanroom Systems**



## SCHILLING ENGINEERING – Turnkey Solutions

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