

Your Cleanroom

# RUN BY XPERTS

TEXTILES | CLEANING | CONSUMABLES | TRAINING



# Full-Service for your cleanroom

Individual textile, cleaning, consumables, on-site and training solutions.

Whether in pharmaceuticals, medical technology, microelectronics or plastics technology – there is always a need for solutions for cleaning, textile management, lock procedures and employee training that can be integrated precisely into the respective company processes.

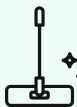
With their extensive expertise and many years of experience, our experts develop innovative, modular offers that are tailored to your needs. This holistic approach ensures that everything in your production works perfectly together so that you can concentrate on your core tasks.

**Arrange your personal consultation now.**



### Textiles

Decontamination and sterilisation of cleanroom textiles & accessories – professionally prepared and always available



### Cleaning

Professional cleaning & disinfection – with specially trained staff and professional cleanroom equipment



### Consumables

Cleanroom consumables – quality, sustainability, commitment, partnership



### Training

Comprehensive training portfolio and training services – for correct behaviour in and around the cleanroom



### On-Site

On-site service – our experts on site in your cleanroom

## Reliable, efficient and sustainable

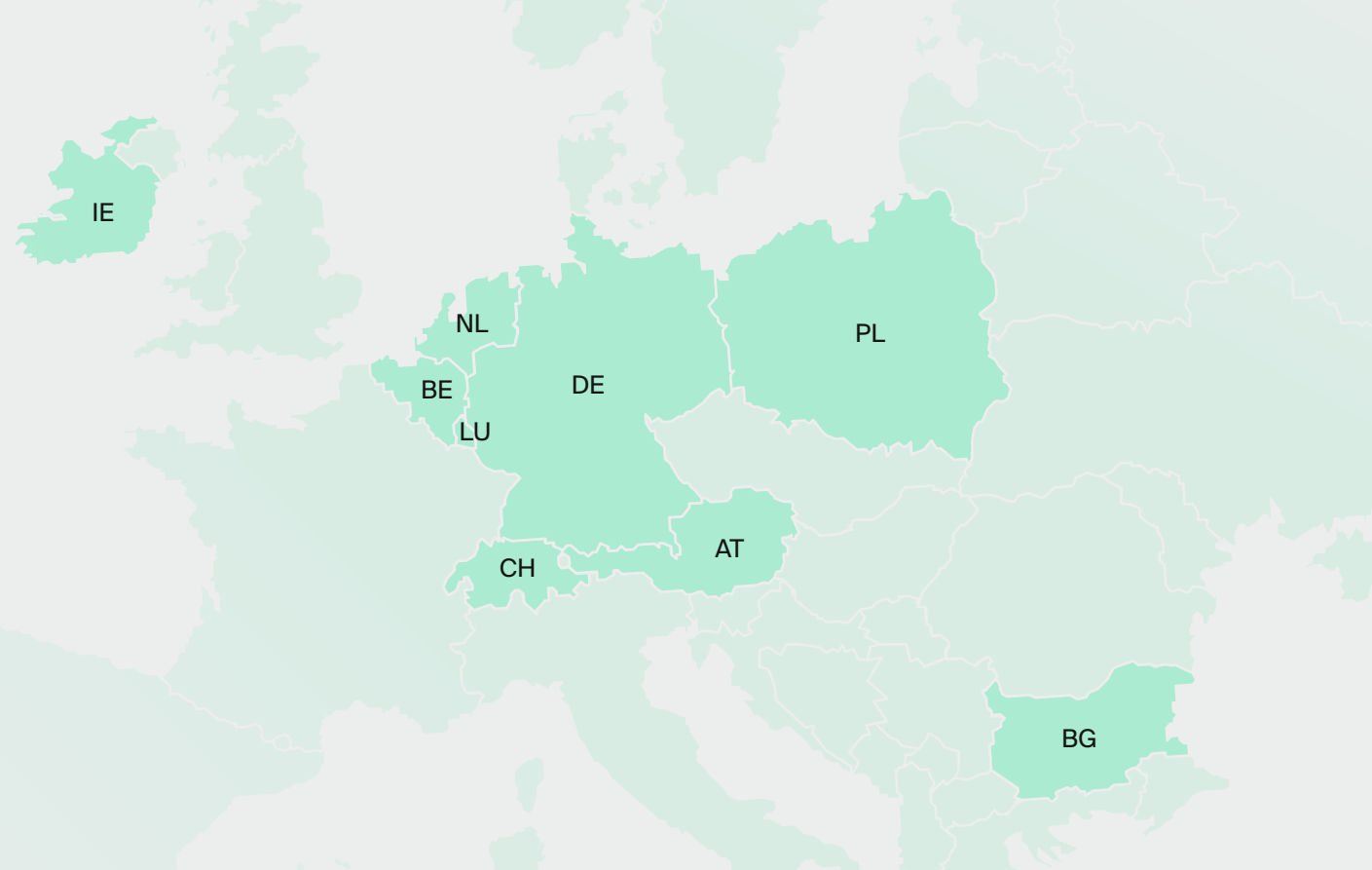
# Your reliable expert for contamination control

With the services of CWS Cleanrooms, your cleanroom processes run reliably, efficiently and sustainably. We take care of your individual requirements and implement the best solutions for your cleanroom. Because behind each of our services is a team of leading industry experts with their knowledge and experience.

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Our experts are at your service throughout **Europe**.








# Professionally processed and always available

Optimise your processes and costs with our individual leasing concept for your cleanroom textiles and accessories.

Where the highest requirements for cleanrooms exist, CWS Cleanrooms is your reliable partner. We can help you to create a custom garment system that protects your product and production environment from particulate and microbiological contamination while ensuring efficient working procedures. You define your specific requirements and we consult

you on fabric and model design for garments including cleanroom accessories such as wipe covers, cloths, eye protection, socks and shoes. Our focus is always on the perfect functionality of the fabric, the fit and the wearing comfort – of course always taking into account the administrative and commercial aspects.

### The advantages of your customised leasing concept:

-  a **requirements analysis** incl. procurement and scheduling for product, quantity and cost optimisation
-  transparent **rental price models and processing conditions** for your individual needs
-  professional **decontamination, sterilisation and packaging** for consistently high quality
-  professional **repair as well as the exchange** after a particular number of cycles have been reached
-  **labelling** by barcode and chip for stock monitoring and traceability



Textiles



# Textiles



## Your requirements, our service

We guarantee the availability and cleanliness of your cleanroom items through customised, professional processing.

### Cleanliness – Professional processing

We collect your used rental garments or other cleanroom articles on schedule and decontaminate, sterilise or wash and dry them. Always professionally in validated, documented processes. This means that each article batch can be traced at any time. We pack the items according to your requirements and deliver them to your access lock, if desired.

### Reliability – Inventory monitoring with failsafe concept

The availability of cleanroom textiles is absolutely essential to maintain your production processes. We reliably take care of the supply so that no bottlenecks occur. We guarantee this, among other things, through our regular inventory monitoring and the large number of our cleanroom laundries installed throughout Europe. For even more security and transparency, you can view your inventory yourself online at any time via our web portal.

### Transparency – Expert advice

With our flexible rental solutions and reprocessing systems, we make your costs for cleanroom textiles transparent and plannable. You gain more time for your core tasks, because we take care of textile procurement, inventory control and changes, amongst other things.

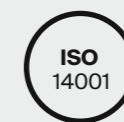
### Individuality – Tailored to your needs

Not all cleanrooms are the same: That's why we work with our customers to develop individual, sustainable solutions – from textiles to packaging. Always perfectly matched to the size and area of application of your cleanroom textiles and the regulatory requirements.

### Our certificates:



**Certified cleanrooms**



**Environmental management systems**



**Quality management systems**



**Occupational health and safety**

# Reliably highest purity and cleanliness

For cleaning and disinfection, we rely exclusively on qualified specialists and professional cleanroom equipment.

We clean and disinfect in all cleanliness classes sterile and dust-free production, laboratories and in adjacent areas.

- GMP class A/B – D
- ISO classes 4–9 (ISO14644-1)
- Laboratories/CNC areas in the pharmaceutical, life science & electronics sector
- Adjacent areas such as social areas, offices, traffic areas, storage areas, etc.

This allows us to reliably exclude even minimal contamination by particles or microorganisms. In order to guarantee the highest quality standards, we work exclusively with qualified cleaning staff. All employees are trained through our cleanroom academy and specially for cleanroom conditions.

## Our service modules for you:

### Basic cleaning (FIRST)

After a new build, reconstruction, maintenance, product changes or accidents, your cleanrooms and associated facilities achieve the limit values according to EU-GMP LF and ISO-14644.

### Regular cleaning (CONTI)

We ensure that the specified limit values for your cleanroom are reliably adhered to through daily/weekly routine cleaning in accordance with your process instructions - to maximise your process reliability!

### Special cleaning

We also carry out special cleaning of machines, filling systems, satellites and rooms with special requirements (e.g. cold room or heating room). Even extreme soiling or streak-free glass cleaning within your production and administration buildings is no problem for our team. Please feel free to contact us!

### On-site service

Do you need process support in your production areas? We can provide you with our qualified specialists. More on page 14.



# Cleaning





# Setting new standards: Innovations in cleaning

The use of innovative technologies makes your cleaning processes even more efficient and sustainable.

## 1 Electronic cleaning and training documentation

We document our cleaning and training processes electronically in real time, including an alarm function in the event of deviations (error and deviation analyses). To do this, we use state-of-the-art cleanroom-compatible hardware and GAMP 5-compliant software.

### Benefit from the following advantages:

- Complete transparency at all times
- Room-related electronic cleaning and training plans (with images/pictograms if required) in accordance with your SOPs
- Ensure compliance with all your cleaning frequencies
- Real-time management & real-time insight into the training status of employees
- Reduction of manual documentation errors & time expenditure
- Immediate generation of reports for internal controls, audits and inspections
- Direct exchange & cooperation with your contact person at the cleaning service provider

## 2 Disinfection technology with nebulisation

With this new type of disinfection, ionised  $H_2O_2$  is applied microfine and spreads like a gas in all directions. It reliably reaches the smallest corners, crevices, cracks and cavities. The application is carried out with mobile devices (backpack size) or stationary devices (suitcase size). Tried and tested areas of application include the healthcare sector, biotechnology, the food industry, the pharmaceutical industry and veterinary medicine.

### Your advantages at a glance:

**Efficient:** The hydroxyl radicals are immediately effective and require only 15 to 30 minutes exposure time for a log-6 reduction.

**Thorough:** Extremely small particle sizes and the electrical charge ensure excellent distribution and outstanding contact ergonomics. Immediate oxidation of lipids/carbohydrates and proteins.

**Gentle:** Due to the low  $H_2O_2$  concentration of approx. 7.5% (only 2.5% left after application) and the minimal contact time, this process is not corrosive. Even delicate materials and sensitive electronic devices can be disinfected without residues (only oxygen and a little humidity).

**Environmentally friendly:** Ionised  $H_2O_2$  leaves no residue. No wiping, no contaminated waste. Aggressive agents can be substituted.

**Application range:** 5–40° Celsius; up to 80% humidity.

**Time saving:** You can save > 50% time compared to conventional disinfection methods.

**Professional:** The procedure is carried out by our qualified team!

# Our experts on site in your cleanroom

Process optimisation, security of supply and relief for your staff with our on-site service.

We take care of the cleanroom area on your premises: From logistics to equipping the airlock - so that everything in your production works in perfect harmony.

As your partner with many years of experience in the areas of cleanroom textiles, cleaning and training, we make use of our expertise directly on site at your

company. We take the pressure off you, help you to optimise processes and thus ensure the quality and continuity of supply. With our staff trained in our own cleanroom academy, we guarantee highest levels of safety and reliability - for a smooth running of your production.

## Examples of our services:

### Availability

- Supply of the airlock areas with cleanroom garments
- Size-assorted filling of garment racks
- Replenishment of consumables

### Quality management

- Monitoring the best-before date of sterile garments
- Sorting out defects and arranging for cleaning or repair
- Restocking in case of shortages
- Sampling as part of cleanroom monitoring

### Logistics

- Removal of dirty laundry
- Delivery and dispatch via your goods receiving department
- Provision of containers for dropping in dirty laundry

### Optimisation

- Process analysis and standardisation
- Improving your logistics
- Customised services: Where can we help you?

## The advantages of on-site services:

-  **Quality and continuity:** As an experienced and reliable partner, we guarantee the best service and the highest quality
-  **Relief and time savings:** Concentrate on your core activities and take the pressure off your team
-  **Safety:** Our employees are experienced in cleanrooms and are also specifically trained and educated for the application
-  **Cost savings and process optimisation:** We help to realise a highly efficient process and optimise deliveries and warehousing



On-Site





# Trained employees with the Cleanroom Academy

We train your employees in one-day training courses, in-house training courses, coaching sessions and online training courses for correct behaviour in the cleanroom.

Employees are the decisive factor in the hygienic status of cleanrooms – and the most frequent cause of contamination errors. That's why our academy specialises in in-house trainings, coachings, day trainings and online courses everything about to teach employees everything they need to know and

reliably master for proper conduct in and around the cleanroom. Most importantly, we make your employees aware of all the opportunities and barriers that protect a clean production environment. Because: a clean room is created in the mind!

## Our training formats:

### 1 Day trainings – You come to us

In our training centres in Germany (Leipzig, Dreieich & Marburg) we offer a comprehensive programme of day training courses on the requirements in the cleanroom (ISO 14644, VDI 2083, GMP guidelines) and practise the correct behaviour, airlocks, gowning, cleaning and disinfection under real conditions.

### 2 In-house training & coaching – We come to you

In order to optimally train your team for the conditions in your company, we will come to you and

- analyse your processes
- create a customised training concept
- optimise behaviour and lock processes and train you on site
- analyse and rectify problems and weak points

### 3 Online training courses – We meet online

Cleanroom knowledge can also be imparted very well online. That's why we offer online seminars on a desired date with a live trainer or completely independent learning via our online platform. The following modules are available to you:

- Behaviour in the cleanroom (online platform & seminar)
- GMP basics (seminar)
- Professional cleanroom cleaning (seminar)



# Quality with a pink touch

Making the difference in cleanroom excellence.

STAXS® holds a reputation as a leading supplier of cleanroom consumables and services specifically for the pharmaceutical and life sciences sectors throughout Europe. Known as experts in contamination control our foundation is based on quality and reliability.

Our ethos revolves around one fundamental question: „How can our work make a difference?“ For over 30 years, this guiding principle combined with scientific rigour has inspired our spirit of innovation and continuous learning.

## More than just products – a commitment to excellence

Our dedication to quality and reliability sets us from others. STAXS® offers a range of DOTCH® products and additional cleanroom consumables from hoods to overshoes, gloves and visitor gowns to products such as disinfectants and cleanroom mops and wipes.

We support our customers in maintaining contamination control and guarantee the integrity and safety of their critical processes and products.

## Our core values – quality, sustainability, commitment and partnership

**Quality:** STAXS® adheres to the highest quality standards in every area of our business activities. The DOTCH® brand stand for scientific credibility, characterised by professionalism, style and confidence to ensure that our customers receive unsurpassed quality products and services to enhance their contamination control practices.

**Commitment:** With over 30 years of experience, STAXS® operates in the Netherlands, Belgium and Germany and serves customers throughout Europe. Our extensive experience positions us as experts in creating safe and controlled environments for forward-thinking organisations.

**Sustainability:** Our commitment to sustainability goes beyond words. The STAXS® Pink Planet programme reflects our commitment to a sustainable future by actively working to reduce our carbon footprint and giving our DOTCH® products a second life through recycling. **Already 98% of our DOTCH® products**, together with a growing number of products from our suppliers, can be given a second life.

**Partnership:** Collaboration is at the heart of STAXS®. We foster strong partnerships with customers and suppliers to work together for mutual success and a cleaner future.

For us, quality is not just a word. It is a promise characterised by an unmistakable colour – pink. STAXS® strives to stand out in the cleanroom industry by making a real difference and ensuring that quality is not just a standard, but a sustainable reality.



**STAXS®**  
CONTAMINATION CONTROL EXPERTS

**Consumables**





# Change together - shaping the future sustainably

We develop sustainable solutions to create added value for the environment, the economy and society.

We have a responsibility towards future generations and should therefore create a future worth living for our children and grandchildren. This means living value-oriented, with sustainability as a prerequisite for economic success. As part of the Enkelfähig initiative of our parent company Haniel, we create value for generations by combining economic success with value-oriented behaviour.

**Enkelfähig**  Creating Value for Generations

## Sustainable solutions in all of our areas:

### Sustainable products and services

We offer sustainable alternatives from socks to undergarments, from overalls to mops - with our innovative MopCube packaging solution - and integrate them into our circular business model in textile services, cleanroom cleaning and on-site services.

### Decarbonisation, resources and innovation

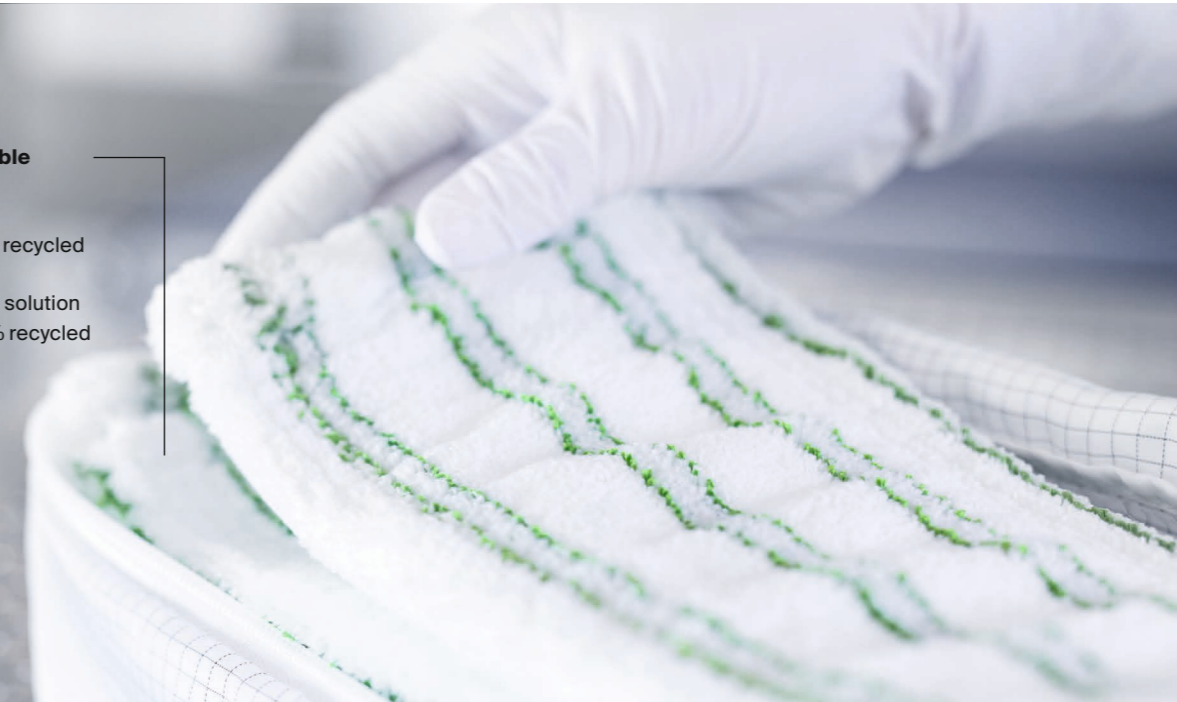
Whether in the construction of new locations or in daily services including logistics - we save CO<sub>2</sub> and rely on the latest technologies and resource-saving solutions (e.g. water, chemicals, electricity, packaging).

### Closing the loop

We keep our products and resources in the service cycle, continue to use them sensibly and try to recycle them even after their useful life has come to an end by developing End-of-life solutions.

## An example of our sustainable cleaning solutions:

- Mop cover made from 76% recycled fibres
- First sustainable packaging solution MopCube made from 100% recycled PET material



# Xplore the next level of service!

Arrange your personal consultation with our experts now.



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