

# PHARMA IN FOCUS

## SECURING CRITICAL PRODUCTION

In a cleanroom production, nothing should be left to chance. An overseen detail can lead to cross-contamination, which can have devastating effects for a pharmaceutical company. Therefore, all measures have to be taken to ensure a safe production.

### Minimising cross-contamination

How do you control contamination in a cleanroom laundry plant, servicing hundreds of customers? Though it might seem like an impossible task, there are innovative ways to tackle this issue.

Berendsen Cleanroom Service employs a “line system” concept to avoid cross-contamination by optimized production flow. In contrast to a traditional workflow with less customer focus, where all types of textiles are pooled to wash, dry and fold, the “line system” concentrates on each individual customer. Employee teams, dedicated to individual customers, guide the textiles through the whole service process, ensuring systematic test of textiles in circulation and customized packaging and sterilization.



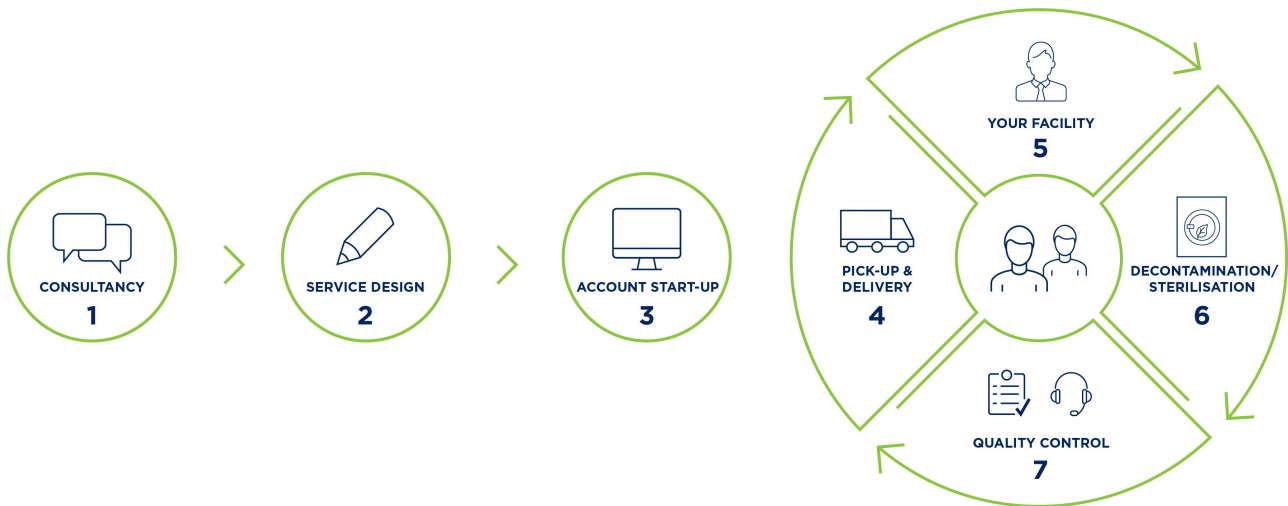
*“Line system” – no risk of contamination and traceability all the way*

## Quality comes from fulfilling different needs

A proper cleanroom apparel and maintenance requires multiple garments and accessories, suitable for the classification in question. The goal is to ensure the full coverage of the operator's body and minimize risk of human contamination. Sometimes, on the other hand, the operator needs protection from the hazardous production. Whatever the situation may be, it produces a great deal of cleanroom garments and accessories to be serviced – textiles, clogs, goggles, cleaning equipment etc. By selecting an individual washing process for each type of textiles, Berendsen Cleanroom Service ensures optimal maintenance of the product. What is more, a unique blend of chemicals, temperature, motion and sterile water at the heart of each washing process guarantees the highest degree of contamination control.

## 100% delivery

Critical cleanroom production differs from unclassified production on many aspects. One of the most important of them is a continuous non-stop delivery of cleanroom textiles and accessories. A breach in the delivery process can put the whole production on hold, causing crippling financial damages. Therefore, the service flow has to function like a well-oiled wheel. In Berendsen Cleanroom Service we put our best foot forward to make sure the service circle never stops spinning. We make that happen through a team of empowered production employees, customer service teams with you in focus, a fleet of dedicated drivers, innovative product managers and professional Quality Assurance Management.



*Our responsibility and unbroken chain of service helps you do what you do best.*

In case of delivery failure on a grander scale, Berendsen Cleanroom Service turns to one of our eleven service centers across Europe. Validated contingency plans enable us to swiftly respond and take over each other's customers without any disturbance to your production.

## Documentation all the way

In times of increasingly stricter legislation for the pharmaceutical industry and overall shift to full GMP compliance, validation and documentation of all processes becomes vital for every producer. This applies not only to own production, but also to suppliers and their procurement chains.

We in Berendsen Cleanroom Service understand the importance of this issue and constantly strive to keep all our documentation up-to-date. All of our cleanroom service centers are validated according to ISO 14644 and comply with GMP procedures and regulations. Cleanroom production monitoring has been a part of our daily life for a long time – washing machines, dryers, autoclaves and dosage systems are checked on regular basis, washing water and cleanroom air are monitored constantly, all equipment changes are implemented according to scrupulously documented procedures.

Furthermore, we demand full documentation on all products from our suppliers and make sure their procurement chains live up to our standards. In addition, we systematically test our cleanroom textiles and accessories for particle or bacteriological residue throughout their lifetime. Finally, we collaborate with scientific institutes and research centers on large-scale test projects.

## One point of contact saves time and money

Growing complexity of cleanroom production in the pharmaceutical industry requires an increasing amount of suppliers. Multiple service agreements, contact persons and meeting take up time and effort that could be put to better use, e.g. concentrate on your core competencies.

We provide a '360 degree' solution to our customers to help them save time and money and are proud to offer garments and cleanroom accessories across a wide range of applications. We strive to fulfill our customer's every requirement and offer a complete solution. That is why our cleanroom propositions can be used in numerous situations – all ISO classes of cleanroom production, Electrostatic Discharge Protective Areas (EPA), areas with special protection requirements, such as handling of Genetically Modified Organisms (GMO) in biosafety areas, danger of fire and explosions, chemical and fine powder hazard, cytotoxic production, operating theatre areas, clinics and laboratories, etc. Moreover, we offer a selection of cleanroom undergarments for extra protection under the overall.

Finally, we offer cleanroom service solutions with clogs, goggles, cleanroom mats as well as full cleaning concepts, training and logistics solutions, sometimes also handling the customer's internal logistics processes.

Continuously, we develop innovative service solutions in close cooperation with our customers.

