

INTEGRATED SERVICE SOLUTIONS

ASEPTIC COMPETENCE CENTER



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TEAM

We are a team of specialists for hygienic and aseptic filling systems with expertise in the fields of process engineering and microbiology.

The team consists of food technologists, process engineers, mechatronics and laboratory technicians with experience in the areas of food processing and packaging, process engineering, microbiology, regulatory.

We provide the complete solution from a single source: from planning through engineering to the final acceptance of a filling line.

For validation, trouble shooting, inspection or optimization of your existing plant our team is the perfect contact.

For microbiological validation we provide you with advice, support you during execution and offer sample preparation and post-processing in our own laboratory.

ON SITE SUPPORT

- MICROBIOLOGICAL RISK ASSESSMENT
- VERIFICATION OF THE EFFICIENCY OF THE DECONTAMINATION PROCESS (CHALLENGE TEST)
- REVALIDATION AFTER MODIFICATION
- INITIAL GERM COUNT OF PACKAGING
- VERIFICATION OF MACHINE REACTION TO CRITICAL CONTROL POINTS (CCP)
- DETERMINATION OF RESIDUAL OXYGEN / PEROXIDE IN PACKAGING
- ENVIRONMENTAL MONITORING
- CHALLENGING THE MAINTENANCE OF STERILITY WITH SMALL PARTICLE SMOKE
- CIP VALIDATION

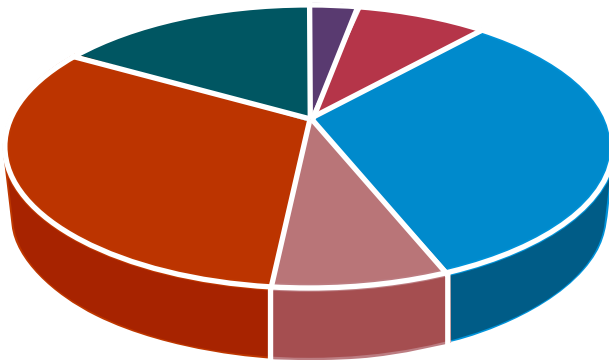
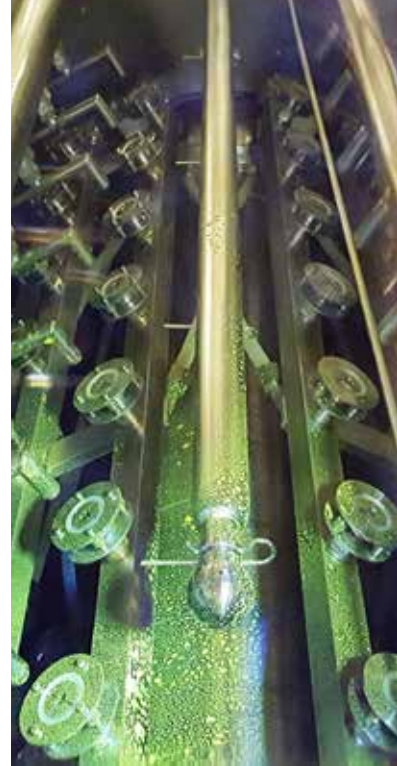
OUR SERVICE

We are able to assemble special decontamination units at our workshop according to customer requirements and conduct microbiological tests with them.



CIP OPTIMISATION

- REGISTRATION OF CIP RECIPE AND VERIFICATION OF ALL CLEANING STEPS
- CONTROL OF THE GIVEN RECIPE PROCEDURE
- SAMPLE FROM RINSE WATER AFTER EACH STEP AND AT THE END OF CIP
- DETERMINE **TOC** (TOTAL ORGANIC CARBON) AND **TIC** (TOTAL INORGANIC CARBON) VALUES IN THE LABORATORY OF OUR PROVEN PARTNER
- IDENTIFY SAVINGS POTENTIAL OR IMPROVEMENT POTENTIAL
- CIP REVALIDATION



EXAMPLE OF A CIP (CLEANING IN PLACE) - TIME DURATION
Not Considered: Concentration (%), Temperature (°C), Pressure (bar)

- CIP-pre-rinse 5 minutes
- CIP Pre-rinse 2 minutes
- CIP Final Rinse 10 minutes
- CIP Nitric Acid 20 minutes
- CIP Intermediate Rinse 5 minutes
- CIP Caustic 20 minutes



LABORATORY

Our microbiological laboratory is certified for biosafety level II in Germany. We are qualified to handle microorganisms up to risk level II, e.g. *Aspergillus brasiliensis*, a widely used indicator organism. The facility is highly equipped for microbial count, media preparation, sample processing, incubation and evaluation.

In our physical laboratory we offer:

- pH measurement
- Conductivity measurement
- Viscosity measurement (acc. Bostwick)
- Brix measurement
- Air Sampling (Particle)
- Temperature profile (IR camera)

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