# Take a **COSEP** look at your process line

Bactoforce has a portfolie of inspection services customized for the food industry.

Let us together find an excellent solution.

- Take a closer look!

#### Pleased to meet you

Would you like to reduce costs, prevent delays, and maintain your production installations in optimum condition?

Then look no further - we are here to identify and eliminate microbiological risks resulting from defects or residues in your production installations.

Our name is **Bactoforce**, pleased to meet you.

### 7000 inspections per year

Bactoforce has a long and successful track record of carrying out inspections of tanks, dryers, pasteurisers, heat exchangers, pipes and other installations for global companies within the food industry.

Bactoforce is the preffered supplier for a number of the leading food producers in Europe. More than 7000 inspections per year globally ensures that we have the necessary experience to successfully meet all your needs and comply with the most stringent criteria.

### **Inspection planning**

We would like to introduce you to the benefits of planned, preventive inspections:

- Time saving for maintanence and quality managers
- Management of equipment hygienic condition
- Reduced equipment downtime and maintenance
- Reduces risks related to product safety and quality





### Service overview

	Service co	oncept, con	nplete over	rview of th	ne inspectio	ons we of	fer	
Service	Pasteurizer integrity test	Heat exchanger integrity test	Tank integrity test	Tank validation	Hygiene flow systems	Hygiene open systems	Weld inspections new installations	Sensor calibration
Leakage test	•	•						
Leakage localization	•	•						
Holding time test	•							
Holding tube validation	•							
Diverter valve response time	•							
Organic residue test	•	•			•			
Cleaning the energy side	•	•						
Calibration	•	•						•
Tank integrity/validation: also	applicable to dr	yers, towers, c	yclones, bag fil	ters, and evap	orators	1		
- Surface crack test			•	•				
- UV residue test			•			•		
- Visual inspection	•	•	•	•		•	•	
CIP validation/Riboflavin test				•				
Material roughness/thickness								

•

= combined service

Endoscopy - hygiene

Endoscopy - weld inspection

## Minimize risks and save time and money!

Our service	Explanation of the goal and implementation of our inspections					
Leakage test	Controlling cross-contamination risks, best practice accurate liquid/liquid measurement of internal or external leake without opening the installation					
Leakage localization	Determining the position of the leak in a plate exchanger with an accuracy of approximately 30 plates without openin					
Holding time, heat retention time	Measuring the product holding time in the holding tube based on salt injections and conductivity measurements (US Army approved)					
Holding tube validation	Documentation of the holding tube configuration					
Diverter valve response time	Determining the response time of the diverter valve in case of under-pasteurization					
Organic residue test	Determining organic residue in closed flow systems without opening it; Bactoforce developed this method on the b Total Organic Carbon analysis; validation of CIP and/or troubleshooting					
Cleaning the energy side (pasteurizer/exchanger)	Accumulated sediment on energy exchange side reduces energy efficiency of installation; Bactoforce's temporary cleans the installation for you					
Calibration	Calibration of flow and temperature meters and sensors					
Tank integrity/validation: also a	applicable to dryers, towers, cyclones, bag filters, and evaporators					
Surface crack test	Surface defects are potential growth sites for microorganisms. Dye-based, non-destructive analysis of mechanical surface defects such as cracks, tears, corrosion, pitting etc.					
UV residue test	Organic residue test and inadequate hygiene due to insufficient cleaning; Bactoforce's special UV lamps make orga residues visible					
Visual inspection	Visual inspection completes the integrity inspection; focus on contamination, quality of gaskets, defective mixing equipment, foreign objects etc.					
CIP validation/riboflavin test						
CIP validation/riboflavin test Material roughness/thickness	equipment, foreign objects etc. Does the CIP supply the inside of the object with sufficient CIP liquid over the entire surface? Validation of cleanability					
	equipment, foreign objects etc. Does the CIP supply the inside of the object with sufficient CIP liquid over the entire surface? Validation of cleanability (riboflavin test)					

Additional	
Reporting	Documentation with photos and descriptions in PDF format, accessible via R-force online database with historical inspection overviews and statistics
Access equipment	Bactoforce has a variety of access equipment for entering large tanks. Choice of application based on case-by-case evaluation considering safety, inspection time, psysical condiations, ect.
Safety	Safety is a primary focus at Bactoforce. Our inspectors are trained to work in food production environments in general and in addition, trained to work in confined space and at height. We are certified according to local standards. ( YCA ,SCC )

### Safety first at Bactoforce

- Our inspections aim to ensure the safety of your products.
- We work in compliance with relevant safety standards.
- Safety risk management of all our activities and focus on product safety.







Established in 1993, Bactoforce is today the leading European supplier of inspections of processing equipment in the food industry.

Take a closer look at your production equipment - we would be happy to arrange for a meeting in the near future to see what we can do for you.

Explanation of opportunities/options, prices, efficient planning and grouping of inspections.

Taking stock of the installation and identifying your inspection wishes and requirements.

Working together, we draw up an inspection plan and a periodic inspection schedule.

Inspecting, monitoring, analysing, reporting and advising on a periodic basis.

Annual evaluation and review of inspection plan.

### About Bactoforce

Bactoforce specializes in locating microbiological risks that can result from defects or residue in production installations.

Building on more than 20 years of experience in food safety, we are now market leader in Europe for the inspection and validation of tanks, heat exchangers, pipes, spray towers, and other equipment and installations.

Involvement of Bactoforce in processing equipment is not limited to the hygienic condition of your installations in the operational phase.

We are also capable of providing input and thinking along with you in the design/ purchase and production/commissioning of your installations, in particular when it comes to optimizing the hygienic design factors.

#### **Bactoforce International**

F.L. Smidths Vej 19,1 8600 Silkeborg Denmark +45 8680 6320 info@bactoforce.com www.bactoforce.com

