

deconex[®] EBL

Ready for use in Industry 4.0





Cleaning processes for the metal industry

We are a technologically world-leading company specialising in cleaning and disinfection processes in hospitals and laboratories, the production industry and the pharmaceutical sector. We develop processes and formulations for the specific tasks of our customers. Thanks to our experience, the extensive machine park and our close cooperation with users, we come up with new ways of optimising existing cleaning processes and developing new ones.

We do this in-house in our research, development and analysis departments. Swiss top quality is reflected in our products as well as in process development and customer service. The cleaning of precision parts ready for coating in the metalworking industry makes high demands - we have specialised in this field.

The „EBL-Line“ offers new opportunities

Do you have a high chemical consumption? Do you often change your cleaning tanks and generate high downtimes on your plants?

The **EBL-Line** (**E**xtended **B**ath **L**ife) offers you the possibility to accompany the way to the digitalized industry 4.0 with the individually required building blocks of cleaning chemicals. Our EBL-Line has the solution for your needs and we support you along this route.

The EBL-Line stands out in terms of innovation in 3 points:

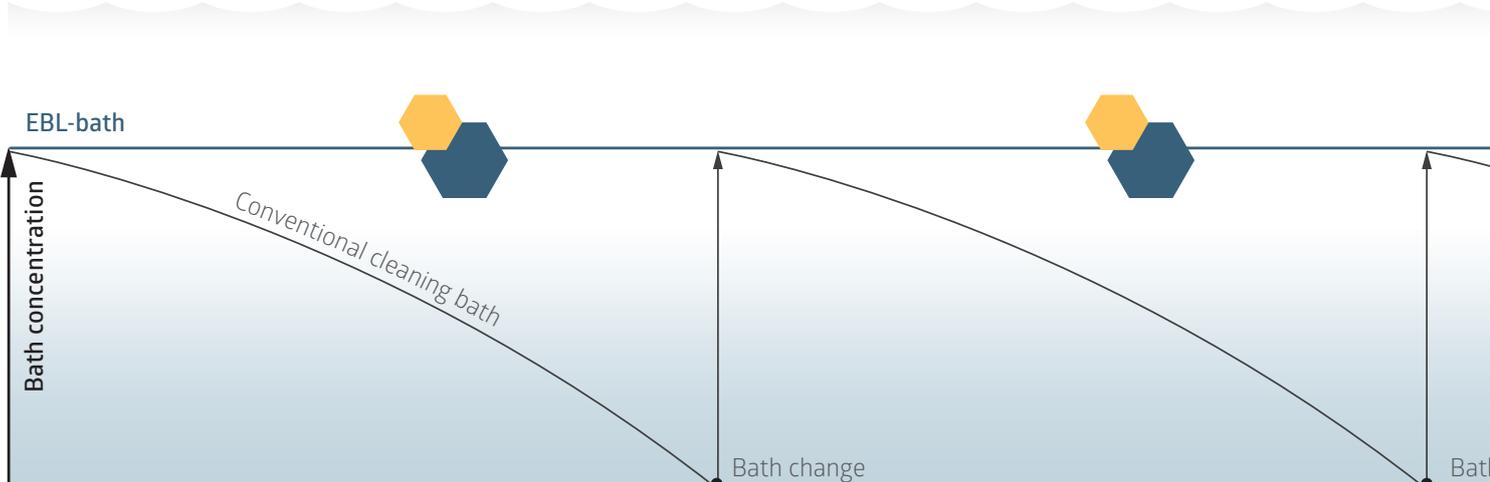
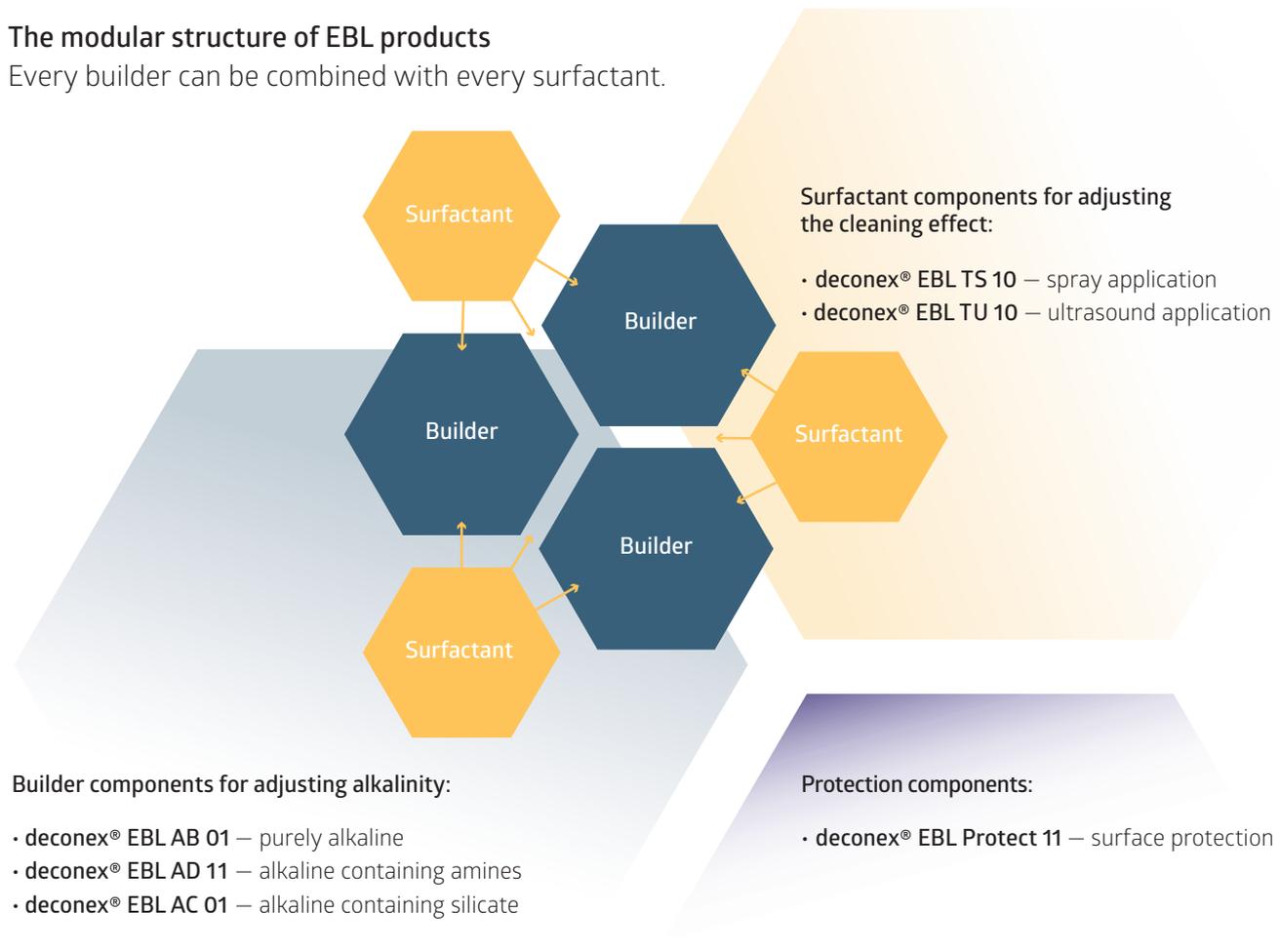
- **The structure**
It is based on various builder / surfactant components
- **Consumption monitoring**
Builder and surfactants can be analysed and re-dosed
- **Online monitoring**
The chemical components allow the application of an online monitoring

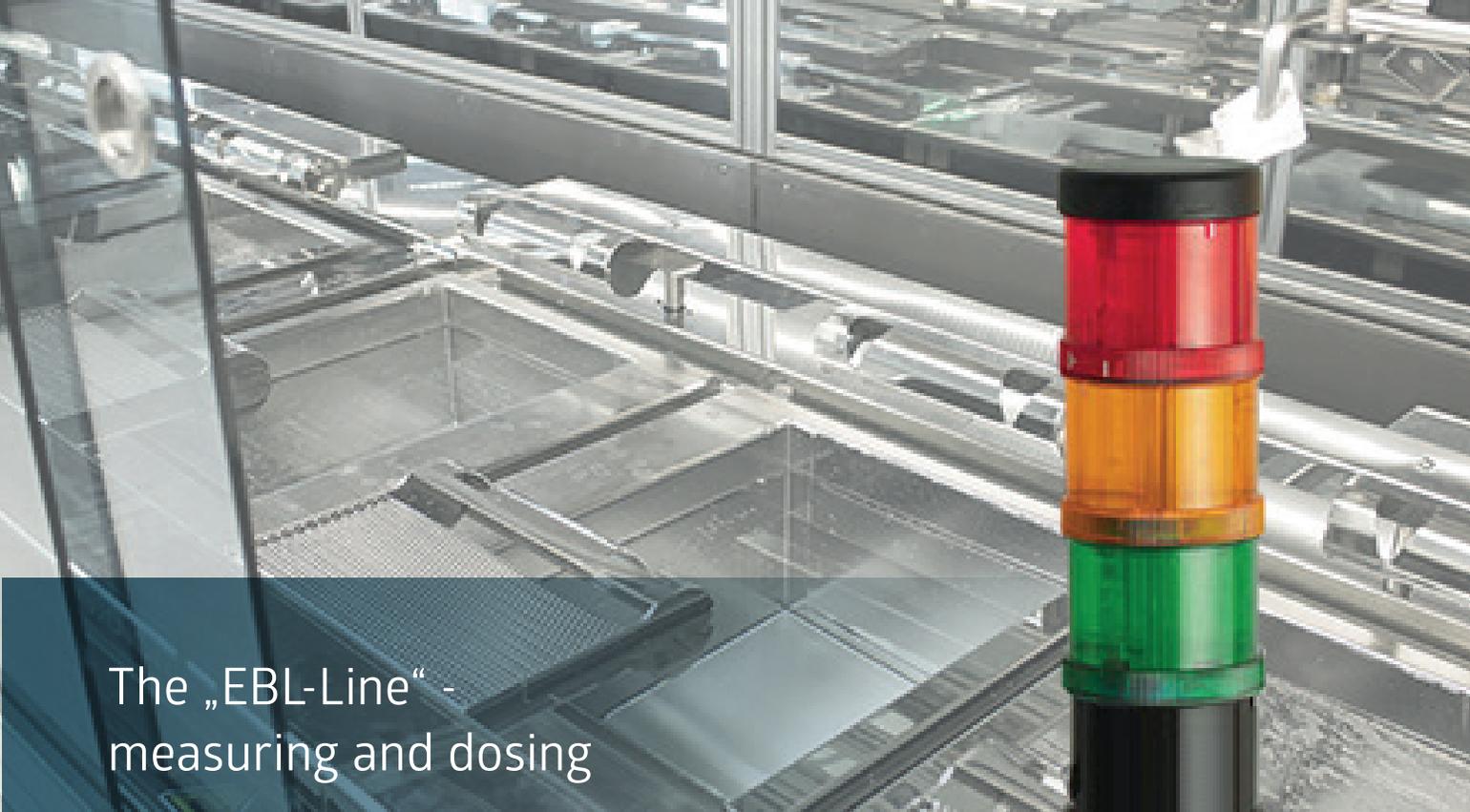
deconex® EBL — Extended Bath Life

The EBL line consists of different building blocks, which are selected by the specific combination of individual components (builder and surfactant) in their individual mode of action to meet the requirements of the substrate and the contaminants. The product range of the EBL-Line is versatile and can be used in many different industries.

The modular structure of EBL products

Every builder can be combined with every surfactant.





The „EBL-Line“ - measuring and dosing

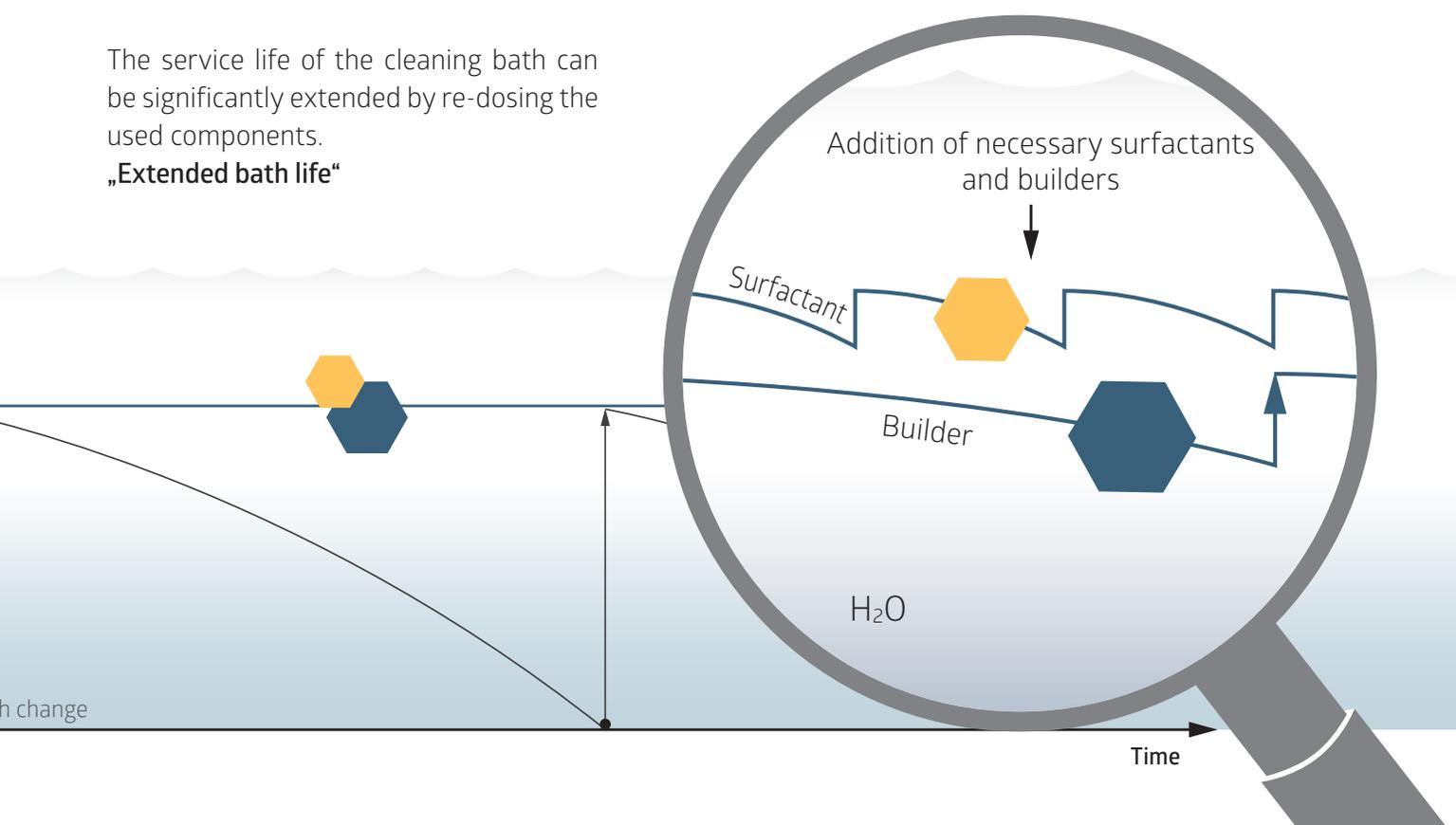
The classic application of water-based cleaning chemicals is realized with complex recipes. As a result of this, measuring and added doses are not absolutely specific.

The EBL-Line takes a new approach here and relies on the experience of proven analytical procedures, which allows the builder and surfactant to be analysed separately and thus to be replenished in a targeted manner:

- Determination of the concentration of surfactants in the cleaning bath by means of bubble tensiometer via determination of the surface tension
- Determining the concentration of builders based on conductivity values and titrations

The service life of the cleaning bath can be significantly extended by re-dosing the used components.

„Extended bath life“



From an experience-based cleaning process to measurable process management - ready for Industry 4.0

Monitoring of EBL cleaning baths through „data capture“.

Thanks to proven analysis methods, the permanent determination of the concentration of the individual bath components ensures the optimum dosage in your cleaning bath. EBL cleaning chemistry will become an integral part of the digitalized cleaning process.

This continuous evaluation and visualization of the bath condition enables a safe control of the process. Quality in the production chain is guaranteed and costs become calculable.

The bath monitoring results from the following measured data:

- **Surfactant concentration** → Determined using the bubble tensiometer
- **Builder concentration** → Determination by measuring the conductivity

Using a visualisation scheme based on the principle of the traffic light system, the current ACTUAL status of the cleaning baths is constantly displayed. According to requirements and the system, additional doses can be added manually or automatically.



Borer Chemie AG

The specialists in cleaning and disinfection

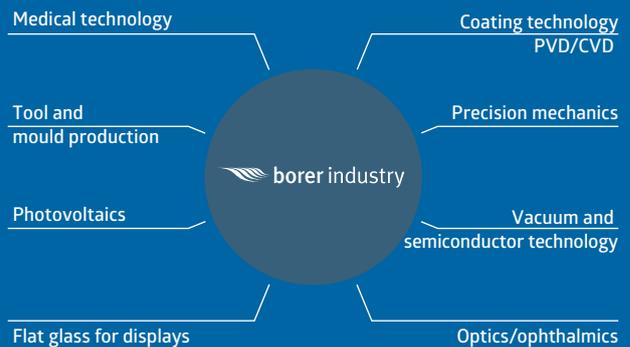
Competence and innovation – worldwide

We have been researching, developing and manufacturing products in Switzerland for demanding applications in the field of cleaning and disinfection since 1965. Our deconex® and decosept® branded products are used in the industrial sector, in hospital hygiene, in laboratories, in the pharmaceutical sector and in hand and surface disinfection. We distribute our products worldwide through a network of subsidiaries and distribution partners.



Clean solutions for all sectors of industry

Industrial manufacturing processes require customised cleaning processes adapted to their individual requirements. A goal-focused cleaning concept safeguards the quality of the final products. Borer Industry's process specialists work with customers to develop specific cleaning concepts for stable, regulations-compliant process management. Support with fine-tuning the implementation and monitoring processes round off our service.

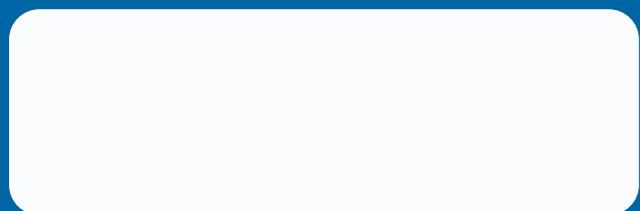


A unique service: the deconex® Test & Training Centre

In our in-house technical centre, our customers have the opportunity to test tailor-made potential system technology and chemistry for their cleaning, passivation or decoating processes. For this purpose, we have state-of-the-art machinery at our disposal as well as the expertise of our specialists.



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