

Measurable and testable: Monitoring with Teqwave

Borer Chemie AG relies on Endress+Hauser for efficient component cleaning



Borer Chemie AG is a globally active manufacturer of products for advanced cleaning applications in the industrial sector, hospital and clinic hygiene, the laboratory and pharmaceutical sector and hand and surface disinfection. Founded in 1965, the family-owned company has been creating added value for its customers by developing efficient cleaning and disinfection processes. The products of the deconex® and decosept® brands have been manufactured at the headquarters in Zuchwil, Switzerland for over 50 years.

"At our testing and training center, we use Teqwave to demonstrate to our customers how easily the analytics of the cleaning agents can be implemented. We are pleased that Teqwave can be used for concentration measurement of most deconex® products – an additional plus for our customers."

Tobias Schär
Customer Service Manager Industrial
Division, Borer Chemie AG



Tobias Schär



The Borer Chemie AG center of competence in Zuchwil

Component cleaning is an important part in manufacturing industrially produced components. When done correctly, it makes a critical contribution to robust and reliable function. Here, customers can rely on the precision and expertise of Swiss market leader Borer Chemie AG and the ultrasonic field devices Teqwave F, I and T from Endress+Hauser.

The customer requirement

As in the upstream manufacturing steps, precision is also required in component cleaning. Only the right combination of cleaning agent and process ensures the necessary cleaning effect and optimum surface quality. Having the necessary specialized knowledge about the right product is a basic requirement. Furthermore, it is important for the concentration of the cleaning agent to be kept at the best possible level for the entire duration of the process. Manual tests related to a specific point in time, such as using titration, often cannot do an

adequate job of ensuring this. Additionally, the measurement methods are error-prone as well as personnel- and training-intensive. A vastly more efficient solution exists in automated measurement systems that guarantee continuous, reliable monitoring of the cleaning agent concentration and provide automated documentation of it.

Our solution

In the versatile, Ultrasonic meters Teqwave F, I and T, Endress+Hauser offers the respective suitable solution for concentration measurement, which are already being used in many component cleaning applications. Teqwave works optimally for liquid analysis in real time and thus is the ideal enhancement for the use of Borer deconex® products. These provide the necessary cleanliness and quality in a wide variety of industries – including watch- and clockmaking, medical technology, precision metals, for flatscreen displays or for optical and high-purity applications.

The Borer Chemie AG test and training center in Zuchwil, Switzerland, is one-of-a-kind in Europe. This facility allows customers to test deconex® cleaning agents and processes as well as high-precision concentration measurement with Teqwave on cleaning systems from a wide variety of manufacturers. The measurability of the concentration of all common Borer deconex® products for industrial applications has been proven many times over. This helps during validations in the test and training center. Likewise, fast conversion of the cleaning agent used in the later cleaning process is possible. This ensures a seamless transition to the customer processes and identifies any challenges that may occur at an early stage.

The result

The close cooperation of Borer Chemie AG and Endress+Hauser ensures that customers have an efficient and consistent process for their products. For requirements involving concentration measurement and bath monitoring, users of deconex® products in combination with the real-time analysis of Teqwave F have the certainty of relying on a dependable and up-to-date method that offers consistent monitoring without sample removal.



Concentration measuring devices for any task: Teqwave F (top) for real-time liquid analysis in pipelines, Teqwave I (bottom left) for precise real-time liquid analysis in system tanks or large pipelines and Teqwave T (right) for temporary liquid analysis in the process.



Offers the most flexible application possibilities: temporary concentration measurement with Teqwave T in the test and training center.



At the test and training center, customers can try out deconex® cleaning agents and processes on cleaning systems from various manufacturers and evaluate the highly accurate concentration measurement with Teqwave.

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