

Component Cleaning Analysis 4.0

**Digital solution for consistent
quality-controlled component cleaning processes**

Real-time analysis of sensor data

The model plant developed at the Fraunhofer IVV uses inline contamination sensors and a smart process data acquisition system to detect all the parameters of a cleaning process, analyze them and derive recommendations for requirement-oriented cleaning.

The real-time analysis of sensor data enables adaptive cleaning processes, demand-oriented wash bath management and efficient and resource-saving cleaning.

Efficiency through assistance

In addition, an assistance system provides task-oriented support for process control and fault analysis, resulting in stable and

reproducible cleaning processes and thus higher plant efficiency.

Thanks to its plant-independent, modular mode of operation, the system solution enables future-oriented cleaning for new and existing plants.

Your benefits

- Use of the latest technology for monitoring your cleaning parameters
- Complete solution from a single source
- Consideration of company specifications and contents
- Knowledge management through operator assistance
- Saving of resources and cost reduction

The demonstrator, developed in cooperation with Georg Render GmbH, uses a contamination sensor based on UV excitation, which determines the degree of contamination on the component directly in the spray chamber at a discrete point in time.

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