Products

Process Optimization

ZESTRON
High Precision Cleaning
**Bath Monitoring**

For reliable and consistent cleaning results

- **Automatic monitoring system** for precise real-time concentration measurement for fresh and loaded cleaning baths
- **Automated concentration management system** - real-time concentration measuring and automated dosage of cleaner concentrate and DI-water in a single module
- **Mobile device** for automated concentration measurement, which can monitor up to 10 different cleaning systems for stencils or PCBs
- **Simple, easy to use method** to evaluate concentration of pH-neutral and alkaline cleaning agents for fresh and loaded cleaning baths

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**Cleaning**

- **Demister**
  - Passive system for the partial recovery of the cleaning agent from exhaust vapor

**Rinsing**

- **Adsorber HM 1**
  - Heavy metal adsorber for use with cleaning and rinsing baths

**Drying**

- **Flux Test**
  - Indicates local distribution of carboxylic-based flux activators on PCBs

**Analysis**

- **Resin Test**
  - Indicates local distribution of resin-based residues on PCBs

- **Coating Layer Test**
  - Chemical test for localized detection of protective coating layer defects on electronic assemblies

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**Cleaning Agent Regeneration & Recovery**

For a longer bath life and absorption of heavy metals from the cleaning bath

**Surface Analytics**

For reliable conformal coating and wire bonding processes
### Product Advantages

These products are developed for optimizing and securing your cleaning process, as well as for analyzing cleanliness reliability of the electronic assemblies.

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| ZESTRON® EYE | - Precise and automatic real-time concentration measurement system for fresh and loaded cleaning baths  
- Continuous data storage for traceability of the monitored process parameters  
- Ability to integrate with the cleaning equipment PLC and automated dosing system |
| ZESTRON® EYE CM | - Automated measurement and monitoring of the cleaner concentration and dosing of concentrate / DI-water  
- Time and cost savings. No manual measurement or dosage by the operator required  
- Can be easily integrated within the production lines and connected to new or existing cleaning processes independent of machine type and manufacturer |
| ZESTRON® EYE Mobile | - Independent mobile use with long battery life  
- Can be used for up to 10 different cleaning machines  
- Dosing recommendation for cleaner concentrate and Di-water |
| ZESTRON® Bath Analyzer 10 & 20 | - Test kit for an advanced and manual concentration measurement for fresh and loaded cleaning baths  
- Applicable for pH-neutral and alkaline cleaning agents  
- Portable for use throughout the production facility |
| ZESTRON® Adsorber HM 1 | - Heavy metal adsorber for cleaning and rinsing baths  
- No recontamination of heavy metals (i.e. Cu, Pb, or Sn) on less precious metals or components |
| ZESTRON® Demister | - Enables partial recovery of cleaning agent from exhaust vapor  
- Passive system - no additional operating costs  
- Saves overall operating costs |
| ZESTRON® Flux Test | - Indicates local distribution of carboxylic-based flux activators  
- Quick and easy test method  
- Onsite sampling inspection during production |
| ZESTRON® Resin Test | - Identifies the local distribution of resin-based residues  
- Quick and easy test method  
- Onsite sampling inspection during production |
| ZESTRON® Coating Layer Test | - Shows coating defect and missing edge covering  
- Quick, easy, cost-effective and non-destructive method  
- More precise than black light/UV inspection |

For more information, please see respective technical information sheets or visit www.zestron.com