

Quali-Fill® Libra®

Online Chemical Management System



Quali-Fill® Libra® Takes Chemical Metrology Performance to a Whole New Level

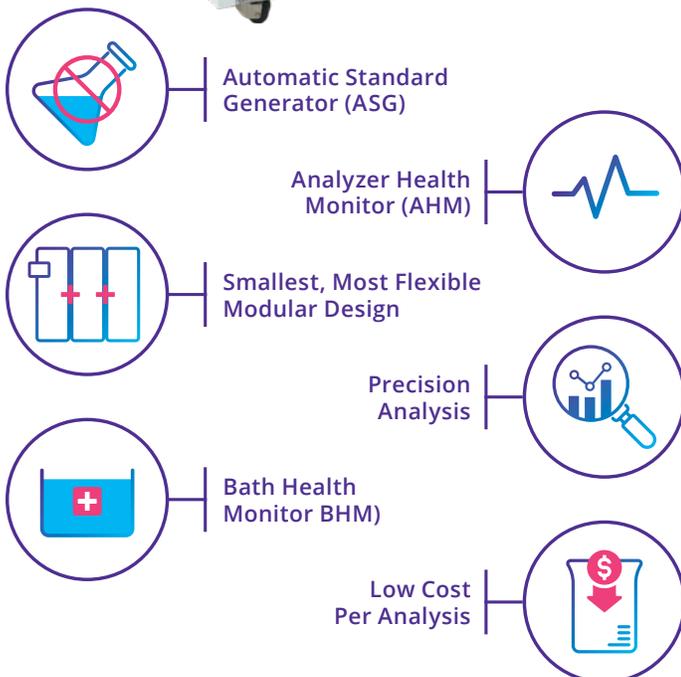


With a configurable, modular design, Quali-Fill Libra is the preferred online standalone metrology analyzer for electroplating and electroless deposition in advanced packaging—taking chemical metrology performance to an ultra-safe and ultra-clean wafer fabrication environment. This sturdy system is specifically engineered to quantify material properties like Ni, Cu, SnAg and other crucial chemical species in plating solutions.

Quali-Fill Libra fulfills all semiconductor safety and communication guidelines while monitoring plating chemicals that are used for wafer level packaging processes (like TSV, RDL, UBM and Micro Bumping).

Analyzer Key Features

- Versatile, modular design supports various types of manufacturing lines
- Close-loop integration with several plating process tools
- Parallel analysis of various chemistries
- Multiple tanks can be supported for each chemistry
- ASG avoids the need to buy high-cost certified standards
- NOWPak configurations available
- Patented and proprietary methods to detect and quantify contaminants like photoresist, additive by-products and trace foreign metals—crucial to managing the quality of the plated products
- The system monitors and allows process understanding of control process solutions and waste streams for treatment or recycling
- High value analyses can be performed with low cost per analysis

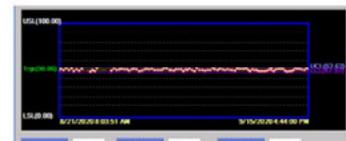


Pair Quali-Fill Libra with Quali-Dose® for Even More Robust Process Control



Quali-Fill Libra combines with the Quali-Dose® system to create a comprehensive Online Chemical Management System—facilitating stringent chemical process control. Pairing Quali-Fill Libra and a Quali-Dose provides users with closed-loop, flexible, precise dosing and multi-tool capability.

- Dose from Supply Containers or NOWPak systems.
- Support bleed & feed, new bath make up, and bath dump.



Smaller process variability when using an ECI QUALI-DOSE system



Greater process variability when using an alternative doser

Quali-Fill Libra Configuration with Quali-Dose

- Reduce chemical handling & manual mixing
- Dose delivery into the tank via slip-stream, buffer tank, or direct injection
- Integration with automated and pressurized central chemical bulk blending systems (CCSS)
- Intelligent dosing capabilities help tighten the process window and improve yield

Key Quali-Dose Features

Flexible dosing schemes based on:

- Analysis results
- Tank level
- Amp/minute
- Manual corrections
- Time-based
- Feed and bleed (optional)
- Wafer count

Got questions? We've got answers. Contact us.



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