

# Quali-Fill® Libra®

Online Chemical Management System

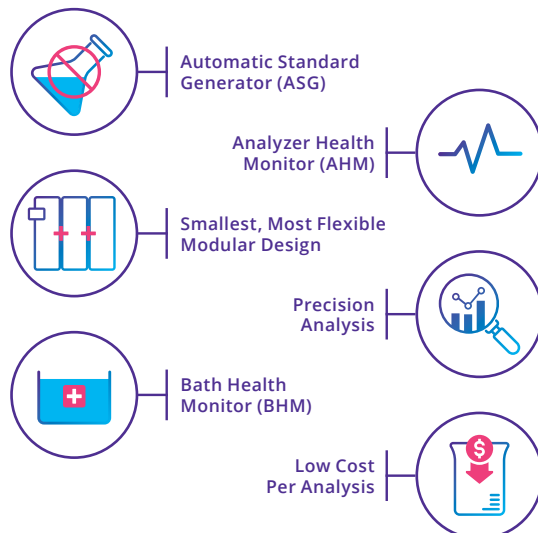
## Quali-Fill® Libra® Takes Chemical Metrology Performance to a Whole New Level

Quali-Fill Libra awards you with exceptional insights and crystal-clear process understanding of control process solutions and waste streams for treatment/recycling.

This versatile, online standalone metrology analyzer—for electroplating and electroless deposition in advanced packaging—takes chemical metrology performance to an ultra-safe and ultra-clean wafer fabrication environment.

With a configurable, modular design, Quali-Fill Libra supports various types of manufacturing lines, and 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).

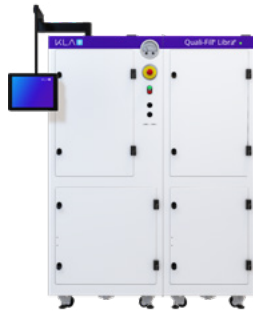


## Analyzer Key Features

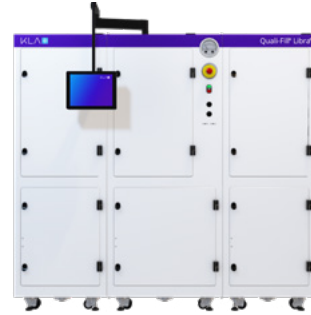
- Patented and proprietary methods crucial to managing the quality of the plated products
- Detect and quantify contaminants like photoresist, additive by-products and trace foreign metals
- Closed-loop integration with several plating process tools
- High value, parallel analysis of various chemistries
- Multiple tanks can be supported for each chemistry
- NOWPak configurations available
- Automatic Standard Generator (ASG) allows you to ditch high-cost certified standards and avoid unnecessary costs



Master Module  
(Cu)



2-Cabinet System with Add-ons  
(Sn, Sn-Ag, Ni, and Au)



3-Cabinet Complete Analyzing System and Solution

## 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. The multi-tool capability of Quali-Dose provides users with closed-loop, flexible, precise dosing.

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



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

## Quali-Dose Key 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.



### KLA SERVICES

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