

QUALI-DOSE®

Automatic Chemical Replenishment System



Seamless integration with ECI analyzers deliver precise doses of replenishing solutions for complete chemical process control

Closed-loop, flexible, precise dosing with multi-tool capacity

ECI Technology's dosing experience of more than 15 years enables the QUALI-DOSE® systems to provide the most novel and comprehensive solutions for handling chemistries in existing Advanced Packaging applications.

The QUALI-DOSE system combines with QUALI-FILL® analyzers from ECI Technology to create a comprehensive online chemical management system – the most robust tool available for facilitating stringent chemical process control.

The QUALI-DOSE system uses smart, versatile algorithms and modes to make up, replenish, or bleed and feed the tank. Powered by quick, efficient dosing, the QUALI-DOSE systems generate no waste and avoid the need for regular maintenance.

Thanks to a system that can offer precise dosing with verification of all the critical components, users can enjoy an unparalleled level of convenience and reliability for running their plating process.

Key Benefits

- Accuracy of <3%
- Multiple delivery validations
- Supports multiple tanks
- Extensive range of flow rates from 20mL/minute to 5000mL/minute
- Multiple dosing modes: dose to target, feedback, feed-forward, amp/hour, time-based, wafer count, manual, etc.
- Any number of components can be dosed
- Analyzer-controlled or operates independently
- Handles bleed and feed or bath dump
- Recipes provided for new bath make up and replenishment
- Integrates via slip-stream, buffer tank, or direct injection methods
- Ability to dose directly from pressurized chemical bulks (central chemical distribution systems)
- Automatic verification with bar code to prevent human error



**Intelligent
Dosing**



**Automatic
Standard
Generator**



**Flexible
Modular
Design**

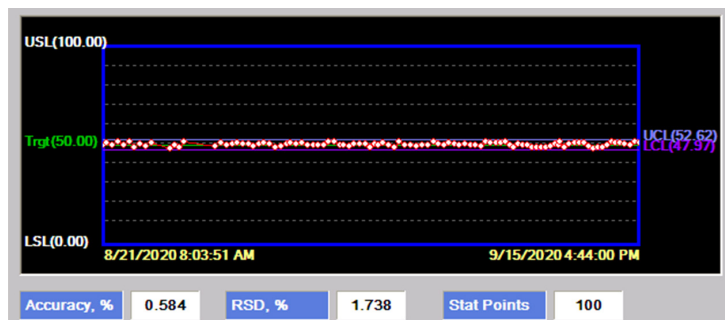
Backed by Local Support



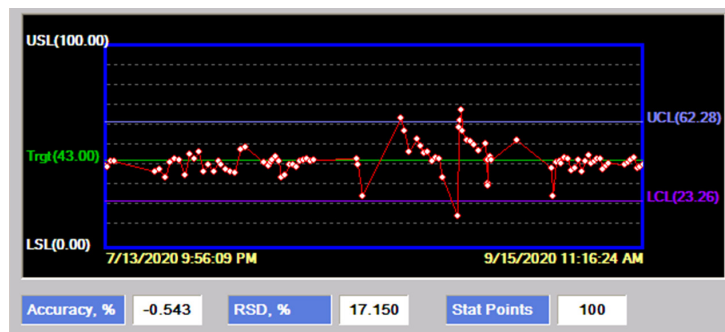
Key Features

- All critical components can be dosed:
 - Organics
 - Inorganics
 - Virgin makeup solution (VMS)
 - DI water
 - Feed and bleed (optional)
- Flexible dosing options are available based on:
 - Analysis results
 - Amp/minute
 - Time-based
 - Wafer count
 - Tank level
 - Concentration levels of target or other components
- Automatic standard generation (ASG)*
 - Avoids the need to buy high cost standard
 - Avoids frequent chemical handling and mixing
 - Minimizes CoO, labor and maintenance
- Manual mode for any component
- Automatic validation - positive feedback with confirmation of each delivery
- Supports multiple tanks, chemistries and plating tools
- Integrate with ECI QUALI-FILL® analyzers or use independently
- Can be integrated with automated and pressurized central chemical bulk and blending systems
- NOWPak® reagent delivery system available

*Chemistry-dependent



Smaller process variability when using an ECI QUALI-DOSE system



Greater process variability when using an alternative doser

Facility Requirements

Dimensions	1829 mm (72") W x 2061 mm (81.1") H x 610 mm (24.0") D
AC	180 to 245 Vac, 50/60 Hz, 15 Amps
Data communication	Multiple communication protocols: Serial, TCP/IP, RS-232, SECS/GEM
Conforming standards	CE, SEMI F47, SEMI S2-S8, NFPA 79

Backed by ECI Technology's Global Support

Contact us for more details. Call or visit us online:

Headquarters (USA)

ECI Technology
60 Gordon Drive, Totowa
New Jersey, 07512
T: +1 (973) 890-1114
E: info@ecitechnology.com

www.ecitechnology.com

Global Offices

Japan
T: +81 45 620 4661
E: info-japan@ecitechnology.com

Korea
T: +82 31 262 8503
E: info-korea@ecitechnology.com

Taiwan
T: +886 03 573 5899
E: info-taiwan@ecitechnology.com

Distribution Partners

Cerma Precision, Inc. – Japan
T: +03 3643 2921
E: info-@cerma.co.jp

ISI – Israel
T: +972 3 9232202
E: isi@isil.co.il

TELTEC North – Germany
T: +49 7 903 91 44 0
E: info-de@teltec.com

TELTEC South – France
T: +33 467 22 40 00
E: info-fr@teltec.com

TransTechnology India Pvt. Ltd. – India

T: +91 9810449898
E: trans-tec.sg@trans-tec.com

WESI Technology – China

T: +86 21 5058 0051
E: info@wesitechnology.com

WKK DISTRIBUTION LTD.

Hong Kong
T: +852 2357 8888
E: wkk_hongkong@wkk.com.hk

WKK SINGAPORE

T: +65 6741 7322
DDI: +65 6469 6506
E: hk_yip@wks.com.sg



We Keep Your Chemistry Right™

