



Cluster Tool Control & Automation Software

Highlights

- ▶ Fab ready
- ▶ SEMI 200/300
- ▶ Cost effective
- ▶ Higher throughput
- ▶ Fast and easy integration
- ▶ Diverse cluster tool support
- ▶ Easily configurable
- ▶ Deployed at fabs worldwide
- ▶ Highly matured
- ▶ Excellent support

The tool is a fully integrated, object oriented, modular and flexible software framework for automation of semiconductor and PV manufacturing equipments. It enables rapid development and deployment of automation software for different tool configurations.

The tool has automated various complex equipment (including CVD, PVD, ALD, Etch, Metrology, Ion Implantation, Wet Bench, Furnace, Stocker etc) allowing you to harness the maturity and reliability of an industry proven solution.

Built-in compliance to SEMI standards and the rich experience from deployments in fabs around the world paves the way to achieve acceptance of your tool in fabs faster and easier.



Features

SEMI Compliance	It supports SECS/GEM, 300mm and Interface A standards:E4, E37, E5, E30, E39, E40,E87, E90, E94, E116, E120, E125, E132 and E134. It is also available pre-integrated with QuEST's tool and other host interface packages.
Multiple Tool Type Support	Supports different tool types including EFEM, EFEM with Vacuum back-end, single and batch hand robots , linked tools , Stocker, Vertical Furnace
Configuration Management	Easy to use utilities equipped to handle diverse configuration requirements of equipments, ranging from devices to host connectivity.
Device Connectivity	In-built support for commonly used devices including EFEM platforms, Load Ports (FOUPs, SMIFs, Open Cassettes),Robots, Indexers, Carrier ID readers, Wafer ID readers and Vacuum System components of major
Scheduling	Supports serial, parallel and concurrent modes of material scheduling for complex equipment configurations. Supports batch and buffer modules. Rule based engine enables throughput optimization.
User Interface	Highly configurable SEMI E95 compliant user interface framework includes screens for Tool Status, Job Management, Manual and Maintenance Operations, User Management and Alarm Management. Other prominent features are multi-language support, custom screen development wizards and third-party screen integration support.
Integration	Provides standard interfaces and Software Development Kit (SDK) combined with exhaustive documentation, for fast and easy integration
Data Analysis	Support for data monitoring and visualization of critical equipment and process parameters.
Simulation	Allows testing of equipment behavior for normal scenarios and failure conditions. Enables in-house reliability and endurance testing at OEM premises addressing the problem of tool availability.



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To learn how QuEST Global's transformative engineering solutions can help you succeed, contact salesenquiries@quest-global.com or visit us at quest-global.com

For more than 20 years, QuEST Global has been a trusted global product engineering and lifecycle services partner to many of the worlds' most recognized companies in Aero Engines, Hi-Tech, Aerospace & Defense, Transportation (Automotive and Rail), Power and Industrial, Oil & Gas and Medical Devices industries. With global presence in 14 countries, 65 global delivery centers and 12,000+ personnel, we are at the forefront of the convergence of mechanical, electronics, software and digital engineering innovations to engineer solutions for a safer and cleaner world. QuEST's deep domain knowledge and digital expertise aim at helping customers accelerate product development and innovation cycles, create alternate revenue streams, enhance consumer experience and make manufacturing processes & operations more efficient.

