

Semitoool Batch Spray Tool

Complete Refurbishment

Semitoool SST/SAT Systems



Semitoool SST/SAT Batch Spray Refurbishment: Better Process Control, Easier Maintenance

Upgrade Your Batch Spray Tool, New Life for Your Current Equipment!

- Improve yield, reduce scrap
- Implement superior process control
- Increase system uptime
- Improve reliability
- Enable new processes
- Easier maintenance
- Reduced cost of ownership
- Enables roadmap for a “continuous improvement” process for your product

Enable Greater Configurability with Advanced Process Control System

- NEW! State of the art software
- NEW! State of the art controls



Improve Yield with Advanced Process Control

- Improved host communication
- Improve performance/troubleshooting with data-logging
- Real-time monitoring with analog sensors
- Improve temperature and flow accuracy through monitoring

Open Your Spare Part Options

- Off the shelf, reduced cost
- Shorten lead times

Partner in Batch Spray Improvements

- Roadmap to future upgrades
- Customer driven continuous Improvement
- Cost effective

Reduce Maintenance Costs, Improve Uptime

Semitool Batch Spray Tool Upgrade

Extend the Life of your SST/SAT

Easier Maintenance

Increase Uptime

Save Money

Improve Performance

Spray Sub-Assembly Repair Options

- Process chamber rebuilds
- Pac Sci motor repair
- Auto doors rebuilds
- For solvent tools, heated tank rebuild
- Pump rebuilds

Rotors: Replacement, Rebalancing

- New builds, new design
- Balancing, electro polishing stainless steel rotors
- Balance Teflon® rotors
- Design custom carriers



Advanced Process Control

IDX
Flexware
PROCESS CONTROL SOFTWARE
by MEI

- Configurability
- Modern control system
- HW & software updates
- Replace obsolete control systems
- Windows 7 (replace DOS)

Field Improvements/Upgrades

We can provide the following upgrade in the field

■ Stand Alone

- Front and rear monitor
- PFA filter housing
- Drain block
- Valve manifold & valves
- INCREASE wafer size—chamber to 200 mm

■ Controller, touchscreen display and I/O to IDX Flexware™

- Tank additions and external heated tank*
- In-line heater*
- Analog flow meter*
- Pump*

Batch Spray Standard Upgrade Package

- IDX Flexware and control upgrade, replaces all Semitool electrical components
- Valve manifold upgrade, replaces all Semitool valves with more readily available actuators
- Analog flow meter upgrade
- New PFA filter housings
- Plumbing replaced with new PFA tubing
- Tanks and chambers rebuilt and electro-polished
- Replace O-rings and seals
- Rebuild pumps (new pumps optional)
- New fire suppression system
- Rotor balanced and electro-polished (SST only)
- Clean, decontaminate frame and replace panels if needed

Premium Upgrade Package Standard Package PLUS New Components

- NEW! Digital exhaust sensor
- NEW! Fiber optic level sensor upgrade*
- NEW! MEI motor and motor control system upgrade*
- NEW! Auto drains
- NEW! MEI door design (auto and manual)



** Requires IDX Flexware upgrade*

Semitoool SST Batch Spray Refurbishment

(Spray Solvent Tool)



Applications

- Resist strip
- Polymer removal clean
- Poly etch clean, polymer removal BEOL
- Resist developing, positive or negative photo-resist strip
- Substrate and mask cleaning
- Metal lift off, flux removal

Features

- 25 wafer loads
- Single and dual chamber
- Trending and graphing via statistical process control software
- High throughput
- Fire protection
- Automated dry in—dry out
- Chemical reclaim
- Repeatable process control
- Easy to maintain

Semitoool SAT Batch Spray Refurbishment

(Spray Acid Tool)

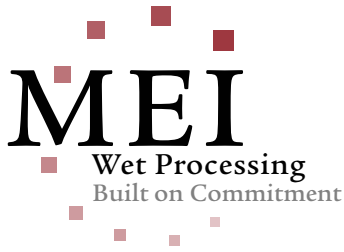


Applications

- Resist strip
- Oxide etch
- Cleans
- Metal etch
- Wafer reclaim

Features

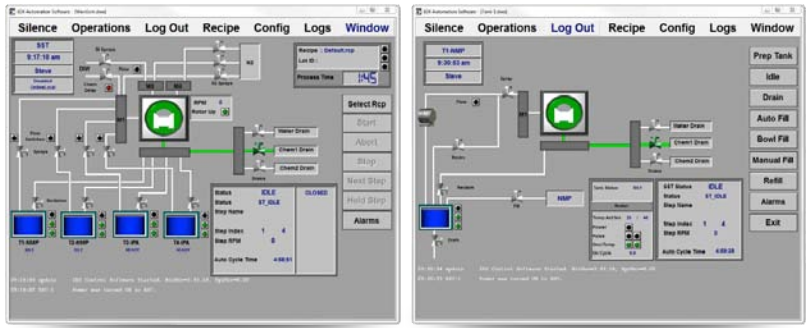
- 25 wafer loads
- 1, 2 & 3 chamber tools
- Trending and graphing via statistical process control software
- High throughput
- Automated dry in—dry out
- 4 chemicals in one sequence
- Repeatable process control
- Enclosed cabinet for operator safety
- Submicron filtration



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Semitool Batch Spray Tool Upgrade

IDX Flexware: The Leader in Advanced Process Control



We Rebuild, Replace or Upgrade All Sub Assemblies in Your Semitool* System

Update Mechanical Systems

Batch Spray tools suffer from hard use, and mechanical systems wear out.

- Off the shelf parts
- NEW seals
- Bowls are rebuilt and electro-polished
- Rotors are rebalanced and electro-polished
- Rebuild auto doors

Update Chemical Systems

- Rebuild tanks
- Rebuilt pumps
- New filter housings
- New valve manifolds
- New flow meters
- New tubing and fittings

Our Process

- Complete decontamination and cleaning
- Refurbished mechanical and chemical systems
- Upgraded with leading edge software and controls MEI's IDX Flexware process control automation software
- Documented, tested and verified

Spare Parts and Critical Stock Support:

MEI is committed to supporting Batch Spray systems. MEI will be stocking various components for SEMI-TOOL SST, SAT and for SRD as well. Our inventory will continuously widen as our list of upgrades expand. This will also include all new components that are found in our upgrade packages.

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MEI, LLC is the ten time winner of the Analog Devices supplier excellence award

MEI's Award Winning Service & Support

- Final Test and Verification
- One Year on Standard Upgrades
- Two Year Limited Warranty on Premium upgrades