



Magnum® Spray Acid Tool (SAT) Restoration Plan

*Rhetechnology is Semitool's only authorized supplier of Semitool restoration services. Rhetechnology Magnum restoration programs **reduce cost of ownership** by improving reliability, productivity and operating life.*

Process Chamber

- Install **NEW** adapter seal assembly
- Install **NEW** motor
- Install **NEW** N₂ filter
- Inspect and clean nozzles
- Replace all O-rings
- Inspect and clean all internal seals
- Bevel spring washers (replace as needed)

Flow Meters

- Clean and inspect for leaks

Door

- Inspect for warpage*
- Rebuild door piston mechanisms*
- Rebuild door plugs
- New DI gun

Electronics

- Recalibrate and adjust power supplies
 - Recalibrate and adjust liquid level sensors
 - Recalibrate and adjust motor controllers
- Note:** Monitor screens are not covered by the Rhetechnology Restoration Warranty. Consult Rhetechnology on available upgrades.*

Robot and WIP

- Inspect and clean
- Replace end-effectors
- Calibrate and test

Additional Items

- Cleaning of cabinet and frame, replacing all badly corroded parts and fittings

Notes:

**If these items cannot be repaired, replacement will be quoted separately.*

A Level 1 Decontamination must be performed on all tools prior to shipment or be subject to a \$10,000.00 charge.

All O-rings covered under this restoration are replacements of standard OEM parts.

Any additional repairs, upgrades, and configuration changes quoted separately.

Tanks

- Clean and rebuild pumps*
- Clean and inspect tanks for leaks
- Replace immersion type heaters
- Replace thermocouples
- Inspect O-rings; replace if necessary
- Clean, inspect and or replace liquid level sensors
- Upgrade liquid level sensor brackets

Supply Drain Valves and Tubing

- Inspect and clean
- Replace as needed
- Rebuild and replace poppets
- Inspect/replace O-rings and valve seals

SRD Chamber

- Balance and electropolish rotor
- Premium series SRD restoration

Testing

- Complete re-assembly of process modules, WIP and robot
- Power-up and test all components, prepare in-depth tool evaluation report
- Final certification test (24 hour)
- Customer source inspection

