

# Product Description

## Semitoool Spray Acid Tool

## SATCA1280

The Semitoool Spray Acid tool (SAT) is a production tool designed to provide a complete process including acid processing, rinsing, and drying of substrates in a single process chamber. Applications include wafer cleaning, metal etch and stripping.

### Refurbished System Includes:

- Cabinet: Polypropylene, Thru-the-Wall, Class 1
- Footprint: 24" W x 60" L x 66" H (See facilities drawing)
- **280 Bowl** (accommodates 8" substrate-low profile)
  - N<sub>2</sub> purged dedicated chemical and DI water spray manifolds
  - Dedicated TFE N<sub>2</sub> dry manifold
- **302 graphic color controller**
  - Process variable control of RPM
  - Heated chemical temperature
  - Programmable time intervals
  - Programmable automatic abort rinse
- (1) One inch thick Teflon™ (PTFE) chemical process chamber with nitrogen-purged labyrinth shaft seal, Teflon™ bowl seal, DI water spray and heated N<sub>2</sub> dry manifold.
- Monolithic Teflon™ (TFM) rotor to accommodate a single process cassette for each chemical process chamber.
- **Brushless DC drive motor** with CDA purged housings
- **CO<sub>2</sub> Fire Suppression**
- Combination of tanks, pumped cells, and or aspirated cells to be defined by the process requirements.
- Auto door
- Flaretek™ type fittings on all fluid line connections.
- 0.3 um point of use N<sub>2</sub> filter for drying and chamber purge.
- Programmable drain selection valve.
- Individual chemical, and water drains.
- PFA Teflon™ DI water and N<sub>2</sub> handling system.
- PTFE air articulated valves for chemicals, DI water and N<sub>2</sub>
- Automatic DI water shut off valve in case of CDA loss.
- Painted stainless steel frame and polypropylene cabinet.
- One standard and one clean room manual per tool.
- On-site start-up and training included  
*(customer responsible for facility installations)*

### Available Options At Additional Cost

- **HIVIS-High Viscosity Option**
- **CCPFA - Cooling Coil**
- **Chem Delivery Unit**
- **Dry-to-dry Options**
- **Data Logging**
- **CE Upgrade**
- **Bottle Fill**



(Representative photo only)

### Supply/Electrical Connections:

#### Electrical

Power Connection:  
Voltage and Current varies with Country  
3 Phase Power Required,  
Consult Factory For Specifics  
Controller Serial Connections: DB-25 Style

#### Supply

Nitrogen Supply  
(25-30 CFM at 40 PSI) 3/4" OD Tubing,  
Flare End  
Compressed Air (CDA) Supply  
(10-12 CFM at 60 PSI) 3/4" OD Tubing,  
Flare End  
City Water Supply (3-4 GPM at 30 PSI)  
3/4" OD Tubing, Flare End  
DI Water Supply (7-9 GPM at 30 PSI)  
3/4" OD Tubing, Flare End

#### Exhaust

Electrical Exhaust (50 CFM) 2" Pipe  
Fume Exhaust, Cabinet (100-150 CFM) 4" Pipe  
Fume Exhaust, Tank / Chamber  
(100-150 CFM) 4" Pipe

#### Drains

Water Drain CPVC Pipe (See facilities drawing)  
Chemical Drain CPVC Pipe (See facilities drawing)  
DI Water Return (Adjustable) 3/8" OD Tube  
Hot DI Water Return (Adjustable) 3/8" OD Tube  
Cabinet Drain, 1" CPVC Pipe

