

TECHNICAL SPEC FOR Etch tool

System Model:

LAM Rainbow TCP 9600 SE CFE

Process: Metal etch

Wafer size: 6”

Wafer type: FLAT

Valve type: VAT pendulum valve 65 series

SMIF: No

ESC (Ceramic?): Coated aluminum ESC – LAM # 718-094756-061

Bulkhead: Yes

Monochromator Endpoint: Dual endpoint detector - LAM # 853-001983-110

Software: E2.0.1-044

RF: 3x on board AE RFG1250 generators (Top, bias, DSQ)

Cart: No

Iso module: DSQ module

AC box: No

MFC: See pictures of gas box

Gas and process configuration for

- Chamber (1)

Gas Full Scale Values		
	Gas Name	Max. Flow
Gas 1	Cl2-100	93.0 sccm
Gas 2	Bcl3-100	100.0 sccm
Gas 3	CHF3-20	19.7 sccm
Gas 4	N2-10	9.9 sccm
Gas 5	N2-200	202.0 sccm
Gas 6	O2-500	500.0 sccm
Gas 7		0.0 sccm
Gas 8		0.0 sccm
Gas 11		0.0 sccm
Gas 12		0.0 sccm
Chamber Clamp Flow		50.0 sccm
Chamber Clamp Pressure		20.00 torr

- **DSQ Strip Chamber**

Gas Full Scale Values		
	Gas Name	Max. Flow
Gas 1	O2-1000	1100.0 sccm
Gas 2	Gas 08	0.0 sccm
Gas 3	Gas 11	0.0 sccm
Gas 4		0.0 sccm
H2O Vapor Delivery		525.0 sccm

Robot type: [Harmonic drive](#)

Loader type: [Hine indexers 38A](#)

Loadlock:

Turbo pumps: [Alcatel ATH1300MT](#)

Controllers:

- [Adixen Magpower \(Turbo pump\)](#)
- [12 CH Anafaze temp controller](#)
- [AC2 controller \(throttle valve\)](#)
- [VAT PM7 controller \(VAT pendulum valve\)](#)
- [Automatic WVDS controller with secondary water containment](#)

Gas box: [See pictures](#)

AC Rack: [See pictures](#)

SW Version: [E2.0.1-044](#)

Vintage:

Missing/defective parts: [None – tool is operational](#)

Photos to Collect

- All 4 sides
- Robot
- Loader
- Gas lines
- Gas box
- Close up from each chamber
- Turbos and Pumps on each process modules
- Controllers

- Electrical cabinets
- AC Rack
- Gas in/outlets
- Electrical in/outlets
- Chiller
- Serial plates of chamber
- Serial plate of Mainframe
- Serial plate of each pump
- Spare parts, manuals (if any)