

Varian* E1000 High Current Implanter

- Manufacturer: Varian Semiconductor Equipment Associates
- Model: E1000
- Wafer Size: 200mm
- Wafer security Smart Pick
- Three light signal tower with sonalert
- Enhanced End station with sliding door load locks, with turbo pumping on load locks
- Accel column 1.2 with modified beam gate and bushing shield.
- Zero Integral Magnetic Faraday
- Polished Stainless Steel Panels or plastic on the cleanroom
- 1 Vaporizer 2.7 CUSP ion Source, with manually switched vaporizers with Impregnated coated source crucibles and spring loaded Thermocouples
- Source Turbo: Varian 1800lps
- Beamline Turbo: Leybold 1000lps
- Pumps Terminal: QDP80 dry pump with N2 controller, QMB500F Blower (subject to availability)
- Pumps Beamline (Dual Beamline turbo): Turbo Leybold 1000lps (subject to availability)
- Implant Chamber: iQDP80 Dry Pump, iQMB500 Blower (subject to availability)
- End Station Turbo Backing Pump: Edwards scroll Pump (subject to availability)
- Cryopumps: Four 250F ONBOARD CTI Cyros (subject to availability)
- Two CTI 9600 Cryo compressors remoted 40 ft. (subject to availability)
- N6 Wafer Transport Assembly
- Plasma Flood Gun
- Two dimensional beam profiler
- Video for viewing vacuum chamber
- Aluminum non-coated Implant disc with Al non-coated Spill-over cup
- SECS II
- +7 to -7 degree wafer tilt angle
- 1500 PSI gas box, with five 4X bottle positions (4 source gas & 1 N2 gas)
- Motorola 680xx VME control system

**we can comply your spec as below by our expert VARIAN engineers.
At Additional Cost for onsite optimisation.**

1. Source N+ Implantation : As , 5E15, 120KeV, No Tilt

Beam current 5~10mA, PLASMA

FLOOD GUN or E-SHOWER is open, emission current about 10~20mA.

2. Source N+ Implantation : Ph , 5E15, 120KeV, 7 Degree Tilt

Beam current 5~10mA, PLASMA

FLOOD GUN or E-SHOWER is open, emission current about 10~20mA.

3. 2nd P+ Implantation(not Deep Body Imp.) : B+ , 1E15, 140KeV, No Tilt

Beam current 2~6mA and implant

time >60s, PLASMA FLOOD GUN or E-SHOWER is open, emission current about 10~20mA.

All of this condition can be comply