

**Manufacturer** Varian

**Model** E500 HP

**Description** Medium Current Implanter

**Condition** Good

**Year of Manufacture** 1995

**Machine Specification**

2 stage pump not included - Edwards QDP80 w/QMB250 Blower

E/S rough pump not included - Edwards QDP80

Source rough pump Edwards QDP80

Compressor CTI 9600LV

Target Cryo 250F C Series

Load Lock pump CTI 100 R/L Series

Source Pump Pfeiffer TMH1001

Aperture pump Pfeiffer TMH 261

Scanner pump Pfeiffer TMH 521

Software Version 12.30 Rev.B

Platen Composite (E11098653)

Rolpat Houing

Rolpat cable Standard

Tilter Motor

Tilter Assy P/N

Gas Box HP == SDS AsH3, Phos, BF3 , and Argon, w/House Ar feed

Gas bottle PH3 - SDS II, AsH3 - SDS II, BF3 - SDS

Orienter stage

High cool No

Electron Flood Gun No

Trek amplifier 30kv Trek Scan Amp (E11000291 -- solid state)

Vaporiser no

Ion Source Bernas

Extraction PS 75 keV

Mirror PS Mirror/Decel

**LOCATION:** Kulim

**SERIAL NUMBER(S):** 037232

**Number of Units**

Decel Auto Decel

Pump Location Subfab

Host SECS II

Source Bushing P/N EHP E17125590

**Machine Options (Yes or No?)**

N2 purity Yes

Camera No

TVL Faraday Yes

Wafer walk out Yes

cassette/Tilt sensor No

Cassette present Yes

Energy probe Yes

UPS No - internal Solution / requires House UPS Connection

metal reduction kit no

Hall Probe Yes

PP+ Upgrade no

Eclamp flat cable no

**Other Information** • E500 HP implanter with partial upgrade towards EHP.

• Tool was used for 150mm production and was disassembled and crated as 150mm tool.

But it is

- Possible to convert it to 200mm (no conversion kit included).
- SECSII host communication
- Electrostatic Platen EHPI platen face
- Polished load locks and cassette nests w/cassette detect switches
- Accel suppression feedthrough
- Type II Bernas ion source w/ tungsten arc chamber
- HP SDS Gas Box
- TVL Traveling faraday assembly
- Mirror Ion beam filter
- Touch screen control
- Three light signal tower
- Self compensating dose monitoring system
- Auto interlock beam purity check
- Interlocked software for to auto regen
- CCIG on resolving housing
- 30K Decel Power Supply
- ES service and terminal cooling pumps
- Remote service monitor
- no - inHouse Solution
- Beam energy probe
- QDP80 source pump
- Pfeiffer turbo pumps