## 1. System Summary

| | | | |
|---|---|---|---|
| **Manufacturer** | NISSIN | **Vintage** | May-97 |
| **Model** | EXCEED2000 | | |
| **Process** | Medium Current Imp. | | |
| **Inspector** | | | |
| **System Demotions** | 3000W X 6325D X 2500H cm | | |

## 2. General Information SYSTEM SHUTDOWN, CONDITION VERY GOOD & CLEAN

| | | |
|---|---|---|
| 2.1 | Wafer Size | 3inch(76mm) / 4inch(100mm) |
| 2.2 | Process # | E95-3005 |
| 2.3 | Energy Range | 10-200KV |
| 2.4 | Cassette Stages | 4 |
| 2.5 | Loadlock | 2 LEFT and RIGHT |
| 2.6 | Orienters | 2 (Auto-Flat/Notch Find) |
| 2.7 | Software | Main:OS Dos / Process: Windows XP Japanese |
| 2.8 | Log-In Password | - |
| | | |

## 3. System Vacuum

| | | |
|---|---|---|
| 3.1 | Ion Source Chamber | N/A |
| 3.2 | Beamline Chamber | N/A |
| 3.3 | End Station Chamber | N/A |
| 3.4 | | |
| | | |
| | 3.4.2 SYSTEM | Drypumps, Turbo pumps, and Cryo pumps, |

| | Class | Maker | Model | |
|---|---|---|---|---|
| 3.5 | DRY PUMPS | | | |
| | Load /Lock (DP-4) | Alcatel | Drytel 34C | 450L/Sec |
| | Target Chamber(DP-3) | Alcatel | Drytel 31 | 450L/Sec |
| | F.E.M (DP-2) | Kashiyama | SD 90V III | 1500L/Sec |
| | S.A.M/Ion Source(DP-1 | Kashiyama | SD 90V III | 1500L/Sec |
| | TURBO PUMPS | | | |
| | Load/lock (TP 4 & 5) | Shimadzu | TMP51G | 55L/Sec |
| | F.E.M (TP-3) | Shimadzu | TMP1002 | 800L/Sec |
| | S.A.M (TP-1 & 2) | Shimadzu | TMP1002 | 800L/Sec |
| | CRYO PUMPS | | | |
| | Target Chamber (CP-2 | Cryotec-12L | V208SC612GN | 4000L/Sec |
| | Collimator (CP-1) | Cryotec-12L | V208SC612GN | 4000L/Sec |
| | | | | |
| | Compressor | Daikin | U110CW | |

## 4. Utilities

| | | |
|---|---|---|
| 4.1 | Power | 208VAC, 3phase, 3wires, 65KVA |
| 4.2 | Air | 100 ~ 150PSI |
| 4.3 | N2 | 40 ~ 150PSI |
| 4.4 | Cooling Water | 60 ~ 150PSI, Temp:4~21℃ |

## 5. Process Gas

| | | |
|---|---|---|
| 5.1 | SIF4 (0.35L) | 200Kev SI+ 200uA-20uA SI++ 20uA-5uA 5E12 |
| 5.2 | Ar (0.35L) | 200Kev 1000uA 5E12 |
| 5.3 | | |
| 5.4 | | |

## 6. High Voltage Range

| | | |
|---|---|---|
| 6.1 | Extraction Power Supply | 0 keV ~ 70keV |
| 6.2 | Acceleration Power Supply | 0 keV ~ 180keV |

## 7. Power Supplies (Assembly)_Power check

| | | | |
|---|---|---|---|
| 7.1 | Arc | YES | |
| 7.2 | Filament | YES | |
| 7.3 | SAM | YES | |
| 7.4 | ACC | YES | |
| 7.5 | DEC | YES | |
| 7.6 | FOCUS | YES | |
| 7.7 | TRIM- Q | YES | |
| 7.8 | FEM | YES | |
| 7.9 | COLUMN | YES | |
| 7.10 | BSM DC/AMP | YES | |
| 7.11 | FARADAY SUPPRESSION | YES | |
| 7.12 | ISO TX 160KV | YES | |
| 7.13 | HV Stack 160KV | YES | |

## 8. Controller (Assembly)

| | | | |
|---|---|---|---|
| 8.1 | BSM Controllers | YES | |
| 8.2 | FEM Controllers | YES | |
| 8.3 | P/C Controllers | YES | |
| 8.4 | SAM Controllers | YES | |
| 8.5 | W/C,WFC Controllers | YES | |
| 8.6 | V/C Controllers | YES | |
| 8.7 | I/C Controllers | YES | |
| 8.8 | O/F Controllers | YES | |
| 8.9 | TQ Controllers | YES | |
| 8.10 | T/C Controllers | YES | |
| 8.11 | I/G Controllers | YES | |

| | | | |
|---|---|---|---|
| 8.12 | T/P Controllers | YES | |