Clean Track ACT System Inspection

Inspection Report

Vintage : 2004.09

Product : Clean Track System

Model : ACT-8 In-line System

Serial No. : MD- XXXX979

☐ In-line  ☐ Local

3COAT 3DEV

☐ CSB  ☑ PRB1  ☐ PRB2  ☐ IFB

☐ Transforme  ☐ Power Box  ☐ T&H Controller #1  ☐ T&H Controller #2

☐ Chemical Box #1  ☐ Chemical Box #2  ☐ MFC #1  ☐ MFC #2

☑ Thermo Controller #1  ☑ Thermo Controller #2  ☑ Fire System Box#1  ☑ Fire System Box#2
2. **Machine Configuration**:

<table>
<thead>
<tr>
<th>UNC</th>
<th>COT</th>
<th>DEV</th>
<th>HHP</th>
<th>ADH</th>
<th>LHP</th>
<th>TRS</th>
<th>CPL</th>
<th>TCP</th>
<th>SHU</th>
<th>CPL</th>
<th>1-5 Pick-up</th>
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</thead>
<tbody>
<tr>
<td>4-4 WEE</td>
<td>3-24</td>
<td>3-14 CPL</td>
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**LEGEND**
- **UNC**: Uni-Cassette Stage
- **COT**: Coat Process Station
- **DEV**: Develop Process Station
- **HHP**: High Temperature Station
- **SHU**: Shuttle
- **TCP**: Transition Chill Plate
- **ADH**: Adhesion Process Station
- **TRS**: Transition Stage
- **WEE**: Wafer Edge Exposure Process Station
- **LHP**: Low Temperature Station
- **CPL**: Cool Plate

*External Tool*

1) Chemical Cabinet #1 (Solvent, Developer)
2) Chemical Cabinet #2 (HMDS, PR)
3) T&H Controller #1 (YEST)
4) Thermo Controller Unit #1 (SMC)
5) Thermo Controller Unit #2 (SMC)
6) AC Power Box
7) MFC
8) Fire Extinguisher

3. **Overall Status**:

<table>
<thead>
<tr>
<th>Status</th>
<th>Running</th>
<th>Idle</th>
<th>Disconnected</th>
<th>Facility Removed</th>
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<tbody>
<tr>
<td>Existed Machine</td>
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<td>Power System</td>
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<td>C.S.S System Status</td>
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4. Machine Detail Check

1. DESCRIPTION
   1-1. Number of Machine : MD-XXXX979
   1-2. Right to Left
   1-3. MODEL : Clean track ACT-8
   1-4. WAFER & CARRIER TYPE : 8", Notch Type , 25 Slots
   1-5. System Power Rating : AC 208V , 3-Phase for System
   1-6. Loading Configuration : 4 Loader Uni-cassette
   1-7. Software Version : Power off
   1-8. Main controller : Missing

2. Main system
   1) Main frame with system controller
   2) Carrier station
      - Type: Normal Uni-Cassette Type
      - 4 Cassette Stage , 1 Pick-up Cassette
      - Uni-cassette system
   3) Coater unit
      - 4 dispense nozzle with temperature controlled lines for etch unit
      - RRC Pump
      - Rinse nozzle : back/ EBR / solvent bath for etch unit
      - Rinse system : 3 liter 2Tank Buffer tank system
      - P.R Suck-back Valve Type : Air operation Suck-back valve
      - Programmable side rinse
      - Drain: Direct drain
   4) Tarc Coater unit
      - 4 dispense nozzle with temperature controlled lines
      - RRC Pump
      - Rinse nozzle : back/ EBR / solvent bath for etch unit
      - Rinse system : 3 liter 2Tank Buffer tank system
      - P.R Suck-back Valve Type : Air operation Suck-back valve
      - Programmable side rinse
      - Drain: Direct drain
   5) Developer unit
      - H nozzle for each unit
      - 2 stream nozzle for DI rinse and 2 points for back side rinse on each unit
      - Developer system : 3 liter 2Tank Buffer tank system
      - Developer temperature control system
      - Drain: direct drain
   6) Interface type : ASML
   7) Adhesion Unit 2EA
      - 100% sealing closed chamber(Built-in hot plate)
      - HMDS tank with float sensor in system
   8) Low Temp Hot Plates (LHP) 5EA
   9) High Temp Hot Plates (HHP) 3EA
   10) Chill Plates (CPL) 13EA
   11) Precision Chilling Hot Plate Process Station (PHP) 0EA
   12) TCP Module 1EA
   13) TRS Module 3EA
   14) WEE (wafer edge exposure ) Module 1EA
      - Wafer Type : Notch , DUV type
15) Chemical Cabinet #1: Solvent & Developer
16) Chemical Cabinet #2: PR & HMDS
17) Temperature & Humidity controller 1EA
   - Type: YEST (YIB-TP23)
18) TEMP Control Unit (TCU) 2EA
   - Type: TEL OEM
19) AC Power Box
20) MFC: 3port
21) Fire Extinguisher
### Configuration

#### MD-XXXX979

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<th>1-2 UNC</th>
<th>1-1 UNC</th>
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<td>3-4 DEV</td>
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</table>

| 4-3 Buffer | 3-1 DEV | 2-1 COT | 2-2 COT | 1-5 Pick-up |
| 4-2 Buffer |         |         |         |             |
| 4-1 T.Hold |         |         |         |             |

### Missing parts

1. Main Controller
2. C/S Motor I/O Board & CS Add on Board
3. Pump I/O Board 2ea
4. 2-1 Arm1, Nozzle Change motor
5. 2-1 Solenoid assy.
6. 2-2 Arm1, Nozzle Change motor
7. 2-2 Solenoid assy.
8. IRA T Motor Driver
9. IRA Y Motor Driver
10. IRA Z Motor Driver
11. IRA Robot
12. Sub Panel
TEL Clean Track ACT8 picture

Machine no.  Main Con. Area  Coater Module (2-1)  Coater Module (2-2)  Coater Module (2-3)

2-4 Module  RRC Pump  PR Pump Area  COT Chemical Area(L)  COT Chemical Area(R)

PR Suck-back Valve  DEV Module (3-1)  3-2 Module  DEV Module (3-2)  DEV Module (3-3)

DEV Chemical Area  CRA  MFC  IRA  WEE Lamp House

CSB & PRB1  Developer  IRA Driver  PR , HMDS Cabinet  Chemical Cabinet

T&H Controller  AC Power  Thermo Controller  EBR Flowmeter