Autostep i-line Stepper

Manager: Garry Bordonaro
Backup: Mike Skvarla

Work Phone: 254-4936
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Safety
- No unusual hazards during normal operation
- No buddy system restrictions imposed on normal operation

Process Restrictions

Material Restrictions
- Standard 4" wafers ONLY unless specifically trained
- Back of substrate must be CLEAN - NO RESIST on back
- Mask must be CLEAN - no resist or fingerprints

Parameter Restrictions
- Place mask µDFAS marks (MATCH) at 48mm from center on X and Y axis
- Die size 15mm maximum (aperture settings 12.5mm)

Scheduling / Sign-up Restrictions – Minimum Tool Time: 15 minutes
- First time runs with staff ONLY - Maximum 2 hour block reservations during daytime - Maximum 6 hours reserved in advance at any time per person - No consecutive research group reservations - Users/Groups may use any amount of unreserved time - Additional individual restrictions may be imposed to maximize effective use

Requirements (Do Every Time)
- Use RMSLOAD to load/unload masks
- Use CHUCK to set chuck size and loading corrections
- Clean up - NO items in chamber
- Set system to 100 mm and AWH when finished
- Log out of stepper system

Prohibitions (Never Do)
- NEVER Leave chamber doors open
- NEVER Load wafers face down
- NEVER Use transparent wafers or wafers without major flat
- NEVER Fix anything

Common Problems

<table>
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<tr>
<th>Problem</th>
<th>Root Cause</th>
<th>Solution</th>
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<tbody>
<tr>
<td>Focus error; Time Out</td>
<td>Wrong thickness, EXPO off wafer</td>
<td>Check wafer thickness, verify all die in EXPO are on wafer</td>
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<tr>
<td>Wafer loader time out</td>
<td>Vacuum failure</td>
<td>Clean wafer back, press S/C to continue</td>
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</tbody>
</table>

Other Comments or Cautions
- Run transmission test on masks before large runs
- To abort, type Ctrl-C, then A - Return
- RMS reset = RESET; AWH reset = RST
- Type REMF to remove wafer from stage chuck

Calls to staff phones will be automatically forwarded to their cell phones during accessible hours. At other times leave a message or send them an email.

Printed: 7/1/2015