5X g-line Stepper

Manager: Edward Camacho  Work Phone: 254-4853
Backup: Garry Bordonaro  Calls to staff phones will be automatically
Backup: Mike Skvarla  forwarded to their cell phones during
254-4936  accessible hours. At other times leave a
254-4674  message or send them an email.

Safety
- No unusual hazards during normal operation
- No buddy system restrictions imposed on normal operation

Process Restrictions

Material Restrictions
- Substrate thickness must be matched to proper chuck thickness
- Back of substrate must be CLEAN - NO RESIST on back
- Mask must be CLEAN - no resist or fingerprints
- Use Transparent/Opaque switch in proper mode (>2um SiO2, or glass, etc.)

Parameter Restrictions
- Use proper MODE setting for chuck size
- DO NOT change ANYTHING except chuck size and loading correction
- Keep alignment marks within 38mm of bottom (1.5 in.)

Scheduling / Sign-up Restrictions
- Maximum 3 hour block reservations during daytime
- Maximum 12 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 use

Requirements (Do Every Time)
- Check MODE, Transparent/Opaque switch, aperture blades
- Clean up - NO items in chamber

Prohibitions (Never Do)
- NEVER Leave chamber doors open
- NEVER Load/remove substrate EXCEPT at load position
- NEVER Tighten screws on chuck - finger tight ONLY
- NEVER Get oil on stepper
- NEVER Fix anything

Common Problems

<table>
<thead>
<tr>
<th>Problem:</th>
<th>Root Cause:</th>
<th>Solution:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Focus error; Time Out</td>
<td>Wrong MODE, wrong thickness, EXPO off wafer</td>
<td>Check MODE, check wafer/chuck thickness, verify all die in EXPO are on wafer</td>
</tr>
<tr>
<td>Bad focus</td>
<td>Wrong focus switch setting</td>
<td>Set Transparent/Opaque switch to proper position</td>
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<tr>
<td>No keyboard response</td>
<td>Scroll lock pressed, computer hang</td>
<td>Press scroll lock button (lower left), reset computer</td>
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Other Comments or Cautions
- Start mask alignment with motions at center of travel
- If wafer will not move in alignment, quit (Ctrl-Q) and restart job

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