# H&L Associates' Stepper Job Creation

Version 2.1Beta for MOP 7.2 [Demo]

## Define machine

Select the stepper model

GCA Stepper Model: Autostep
MOP Version:
Global Alignment
Chuck size: *mm*
Objective spacing: *mm* Other value 102 *mm (40.0 - 101.6)*
Use AWA: Yes
Local Alignment
Type: Micro DFAS
INSITU: Yes
Additional options
RMS: Yes
ACS: Yes
Exposure scale factor: Yes
Laser Dose Control: Yes

3696
4800
6000
8000
ALS
Autostep

## Create a new job

New job — *Create a new job file from the beginning*

## Use a local template

Job.tmpl — From template — *Use a file in this account as a template for a new job*

## Upload job file

Browse... — Edit job

*Upload and edit an existing user job file*

## Pass colour map

*Optionally assign each pass a colour when showing the plugs and dropouts*

Pass name — Colour 000033 — ⇒Add — Del — Save⇒

DEFAULT..008000
TEST..0066FF
E..FFCC00
G..99CC00
B..CCFFFF

# H&L Associates' Stepper Job Creation

Version 2.1Beta for MOP 7.2 [Demo]

## Define machine

GCA Stepper Model: Autostep

MOP Version: 7.2.x (6.05.x / 7.1.x / 7.2.x / 7.3 (Autostep))

Select the MOP version

### Global Alignment

Chuck size: *mm*

Objective spacing: *mm* Other value 102 *mm (40.0 - 101.6)*

Use AWA: Yes

### Local Alignment

Type: Micro DFAS

INSITU: Yes

### Additional options

RMS: Yes

ACS: Yes

Exposure scale factor: Yes

Laser Dose Control: Yes

## Create a new job

New job — *Create a new job file from the beginning*

## Use a local template

Job.tmpl — From template — *Use a file in this account as a template for a new job*

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Browse... — Edit job

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*Optionally assign each pass a colour when showing the plugs and dropouts*

Pass name | Colour 000033 | ⇒Add | Del | Save⇒

DEFAULT..008000
TEST..0066FF
E..FFCC00
G..99CC00
B..CCFFFF

# H&L Associates' Stepper Job Creation

Version 2.1Beta for MOP 7.2 [Demo]

## Define machine

GCA Stepper Model: Autostep

MOP Version: 7.3 (Autostep)

### Global Alignment

Chuck size: 76.2 (3") *mm*

Objective spacing: *mm* Other value 102 *mm (40.0 - 101.6)*

Use AWA

### Local Alignment

Type: 76.2 (3") / 82 / 100 / 125 / 150 / 200

INSITU: Yes

Select the chuck size

### Additional options

RMS: Yes

ACS: Yes

Exposure scale factor: Yes

Laser Dose Control: Yes

## Create a new job

New job — *Create a new job file from the beginning*

## Use a local template

Job.tmpl — From template — *Use a file in this account as a template for a new job*

## Upload job file

Browse... — Edit job

*Upload and edit an existing user job file*

### Pass colour map

*Optionally assign each pass a colour when showing the plugs and dropouts*

Pass name: Colour 000033 ⇒Add Del Save⇒

DEFAULT..008000
TEST..0066FF
E..FFCC00
G..99CC00
B..CCFFFF

# H&L Associates' Stepper Job Creation

Version 2.1Beta for MOP 7.2 [Demo]

## Define machine

GCA Stepper Model: Autostep

MOP Version: 7.3 (Autostep)

### Global Alignment

Chuck size: 150 *mm*

Objective spacing: 76.2 *mm* Other value: 102 *mm (40.0 - 101.6)*

Use AWA: Yes

### Local Alignment

Type: Micro DFAS

INSITU: Yes

### Additional options

RMS: Yes

ACS: Yes

Exposure scale factor: Yes

Laser Dose Control: Yes / No

Do not use exposure scale factor

Define additional options for your particular stepper. This is much the same as the supervisor running the MOP's CONFIG command

## Create a new job

New job — *Create a new job file from the beginning*

## Use a local template

Job.tmpl — From template — *Use a file in this account as a template for a new job*

## Upload job file

Browse... — Edit job

*Upload and edit an existing user job file*

## Pass colour map

*Optionally assign each pass a colour when showing the plugs and dropouts*

Pass name: Colour: 000033 ⇒Add Del Save⇒

DEFAULT..008000
TEST..0066FF
E..FFCC00
G..99CC00
B..CCFFFF

# H&L Associates' Stepper Job Creation

Version 2.1Beta for MOP 7.2 [Demo]

## Define machine

GCA Stepper Model: Autostep

MOP Version: 7.3 (Autostep)

### Global Alignment

Chuck size: 150 *mm*

Objective spacing: 76.2 *mm* Other value: 102 *mm (40.0 - 101.6)*

Use AWA: Yes

### Local Alignment

Type: Micro DFAS

INSITU: Yes

### Additional options

RMS: Yes

ACS: Yes

Exposure scale factor: No

Laser Dose Control: No

## Create a new job

New job

Create a new stepper job. The current machine settings will be saved and used for all future job creation.

## Use a local template

Job.tmpl From template *Use a file in this account as a template for a new job*

## Upload job file

Browse... Edit job

*Upload and edit an existing user job file*

## Pass colour map

*Optionally assign each pass a colour when showing the plugs and dropouts*

Pass name Colour 000033 ⇒Add Del Save⇒

DEFAULT..008000
TEST..0066FF
E..FFCC00
G..99CC00
B..CCFFFF

# H&L Associates' Stepper Job Creation

Version 2.1Beta for MOP 7.2 [Demo]

## Define machine

GCA Stepper Model: Autostep

MOP Version: 7.3 (Autostep)

### Global Alignment

Chuck size: 150 *mm*

Objective spacing: 76.2 *mm* Other value: 102 *mm (40.0 - 101.6)*

Use AWA: Yes

### Local Alignment

Type: Micro DFAS

INSITU: Yes

### Additional options

RMS: Yes

ACS: Yes

Exposure scale factor: No

Laser Dose Control: No

## Create a new job

New job *Create a new job file from the beg*

Create a new job file

## Use a local template

Job.tmpl From template

Create a new stepper job using a previously defined job as a template. The templates are stored in the user's directory and will appear in the dropdown list.

*or a new job*

## Upload job file

Browse... Edit job

*Upload and edit an existing user job file*

## Pass colour map

*Optionally assign each pass a colour when showing the plugs and dropouts*

Pass name Colour 000033 ⇒Add Del Save⇒

DEFAULT..008000
TEST..0066FF
E..FFCC00
G..99CC00
B..CCFFFF

# H&L Associates' Stepper Job Creation

Version 2.1Beta for MOP 7.2 [Demo]

## Define machine

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MOP Version: 7.3 (Autostep)

### Global Alignment

Chuck size: 150 *mm*

Objective spacing: 76.2 *mm* Other value: 102 *mm (40.0 - 101.6)*

Use AWA: Yes

### Local Alignment

Type: Micro DFAS

INSITU: Yes

### Additional options

RMS: Yes

ACS: Yes

Exposure scale factor: No

Laser Dose Control: No

## Create a new job

New job *Create a new job file from the be*

Create a new job file

## Use a local template

Job.tmpl From template

## Upload job file

Browse... Edit job

*Upload and edit an existing user job file*

Import and edit an existing job file. This job file can be downloaded from the stepper using Kermit or the 'DOS PUT' command available in our upgrade kits.

## Pass colour map

*Optionally assign each pass a colour when showing the plugs and dropouts*

Pass name Colour 000033 ⇒Add Del Save⇒

DEFAULT..008000
TEST..0066FF
E..FFCC00
G..99CC00
B..CCFFFF

# H&L Associates' Stepper Job Creation

Version 2.1Beta for MOP 7.2 [Demo]

## Define machine

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MOP Version: 7.3 (Autostep)

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Chuck size: 150 *mm*

Objective spacing: 76.2 *mm* Other value: 102 *mm (40.0 - 101.6)*

Use AWA: Yes

### Local Alignment

Type: Micro DFAS

INSITU: Yes

### Additional options

RMS: Yes

ACS: Yes

Exposure scale factor: No

Laser Dose Control: No

## Create a new job

New job *Create a new job file from the beginning*

Create a new job file

## Use a local template

Job.tmpl

## Upload job file

*Upload and edi*

Colours, based on the pass name, can be assigned to the graphical display of the wafer when defining plugs and dropouts. This can improve the documentation of the job. The colour map is stored in the user's directory.

## Pass colour map

*Optionally assign each pass a colour when showing the plugs and dropouts*

Pass name: Colour: 000033 ⇒Add Del Save⇒

DEFAULT..008000
TEST..0066FF
E..FFCC00
G..99CC00
B..CCFFFF

# H&L Associates' Stepper Job Creation

Version 2.1Beta for MOP 7.3 [Demo]

⇐Main Page (back) | Print

## Job Parameters

Job Name: Job

Date: 09:59 23/03/2009 [Now]

Job comment:

Tolerance: 3

Othogonality correction: *ppm (± 200)*

Leveler batch size: 1 *(1 to 25)*

Wafer diameter: 150 *mm (12.7 - 225)*

Define the global parameters of the job before defining the settings for each pass in the job. This will be the same as running SPEC (or JOB under MOP 7.3). The parameter list may vary depending on the version of the MOP and the options selected for the stepper in the main page.

### Scale correction

X: *ppm (± 200)*

Y: *ppm (± 200)*

### Left die center

X: *mm*

Y: *mm*

Row:

Column:

### Left key offset

X: *mm*

Y: *mm*

## Array Parameters

### Step size

X: 10 *mm*

Number of columns: 15 *Span X* 0 [All]

Y: 10 *mm*

Number of rows: 15 *Span Y* 0 [All]

### Translate origin

X: *mm*

Y: *mm*

### Epi shift

X: *mm (± 0.050)*

Y: *mm (± 0.050)*

## Wafer Image Adjust

Offset X: 0 *mm*

Offset Y: 0 *mm*

Shape: Circle

## Pass Parameters

Define passes ⇒

# H&L Associates' Stepper Job Creation

Version 2.1Beta for MOP 7.3 [Demo]

⇐Main Page (back) | Print

## Job Parameters

Job Name: Job

Date: 09:59 23/03/2009 [Now]

Job comment:

Tolerance: 3

Othogonality correction: *ppm (± 200)*

Leveler batch size: 1

Wafer diameter: 150

### Scale correction

X

Y

The step size in X and Y is used to calculate the number of columns and rows if a SPAN in X or Y is specifed. Pressing ALL will maximise the number of rows or columns for a given wafer diameter. These parameters will be updated when the user moves to another input line.

## Array Parameters

### Step size

X: 10 *mm*

Number of columns: 15 *Span X*: 0 [All]

Y: 10 *mm*

Number of rows: 15 *Span Y*: 0 [All]

### Translate origin

X *mm*

Y *mm*

## Alignment Parameters

Standard Keys: Yes

### Right die center

Row

Column

### Right key offset

X *mm*

Y *mm*

### die center

Row

Column

### key offset

X *mm*

Y *mm*

### Epi shift

X *mm (± 0.050)*

Y *mm (± 0.050)*

## Wafer Image Adjust

Offset X: 0 *mm*

Offset Y: 0 *mm*

Shape: Circle

## Pass Parameters

Define passes ⇒

# H&L Associates' Stepper Job Creation

Version 2.1Beta for MOP 7.3 [Demo]

⇐Main Page (back) | Print

## Job Parameters

Job Name: Job1

Date: 09:59 23/03/2009 [Now]

Job comment: Comment for Job1

Tolerance: 3

Othogonality correction: *ppm (± 200)*

Leveler batch size: 1 *(1 to 25)*

Wafer diameter: 150 *mm (12.7 - 225)*

### Scale correction

X: *ppm (± 200)*

Y: *ppm (± 200)*

## Array Parameters

### Step size

X: 10 *mm*

Number of columns: 15 *Span X* 0 [All]

Y: 10 *mm*

Number of rows: 15 *Span Y* 0 [All]

### Translate origin

X: *mm*

Y: *mm*

## Alignment Parameters

Standard Keys: Yes

### Right die center

Row

Column

### Right key offset

X

Y

### Left die center

Row

Column

### Left key offset

X

Y *mm*

Grayed out parameters will be unavailable, usually as a result of selecting some other option. In this case, custom alignment key positions can't be entered since the user has chosen to use standard keys.

### Epi shift

X: *mm (± 0.050)*

Y: *mm (± 0.050)*

## Wafer Image Adjust

Offset X: 0 *mm*

Offset Y: 0 *mm*

Shape: Circle

## Pass Parameters

[Define passes ⇒]

# H&L Associates' Stepper Job Creation

Version 2.1Beta for MOP 7.3 [Demo]

⇐Main Page (back) | Print

## Job Parameters

Job Name: Job1

Date: 09:59 23/03/2009 [Now]

Job comment: Comment for Job1

Tolerance: 3

Othogonality correction: *ppm (± 200)*

Leveler batch size: 1 *(1 to 25)*

Wafer diameter: 150 *mm (12.7 - 225)*

### Scale correction

X: *ppm (± 200)*

Y: *ppm (± 200)*

## Array Parameters

### Step size

X: 10 *mm*

Number of columns: 15 *Span X* 0 [All]

Y: 10 *mm*

Number of rows: 15 *Span Y* 0 [All]

### Translate origin

X: *mm*

Y: *mm*

## Alignment Parameters

Standard Keys: Yes

### Right die center

Row:

Column:

### Right key offset

X: *mm*

Y: *mm*

### Left die center

Row:

Column:

### Left key offset

X: *mm*

Y: *mm*

### Epi shift

X: *mm (± 0.050)*

Y: *mm (± 0.050)*

## Wafer Image Adjust

*mm*

*mm*

Having defined the global parameters for all passes, settings for each individual pass can now be specified

## Pass Parameters

Define passes ⇒

# H&L Associates' Stepper Job Creation

Version 2.1Beta for MOP 7.3 [Demo]

⇐Job Parameters (back) | Print | ⇒Template | ⇒Job file

Pass List: PASS MIN

Add | Del | New | Save

Browse... | ⇐Get data

A dropdown list of defined passes for the current job. Passes in this list can be deleted or changed. Each pass can be used as a template for additional passes which can be added (with a different name) to the list.

## Pass Parameters

Name: PASS MIN

Comment:

Use local alignment: No

Microscope focus offset: 0 *0.1 µm(± 2000)*

AWA filename: NONE **.SRX**

Pass shift

X: *mm (±100.0)*

Y: *mm (±100.0)*

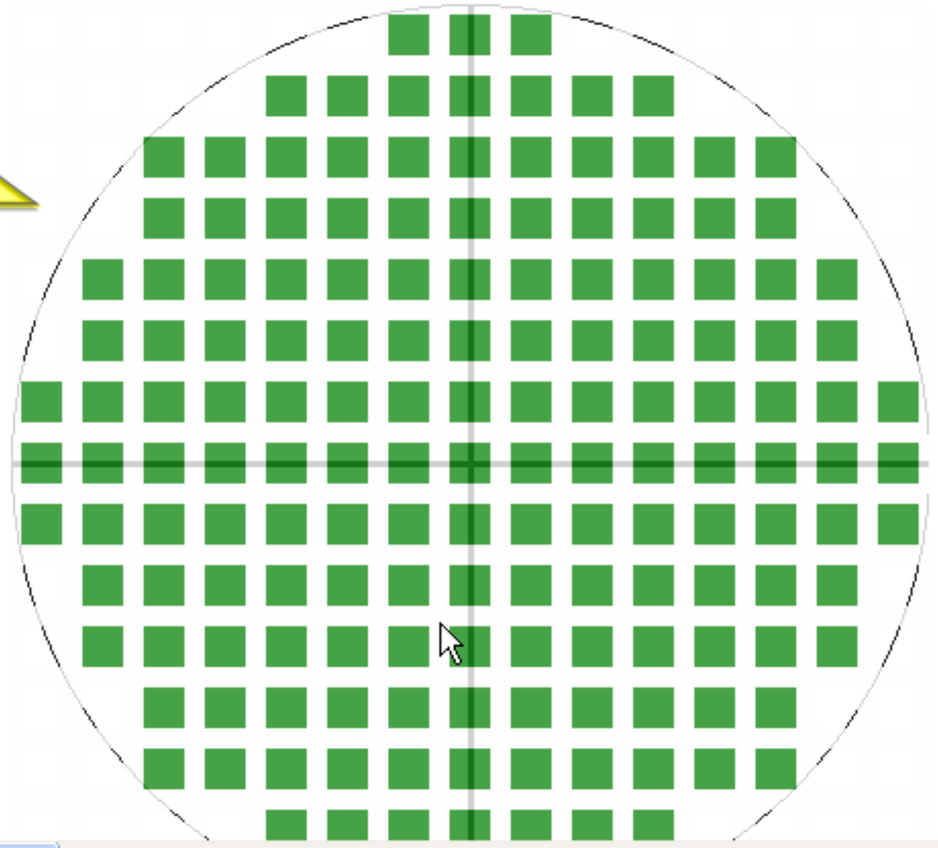
Delete

Offset X

Y | Add Offset

Exposure ▼
Local_Alignment ▼
RMS ▼

This is a display of the exposed die positions on the wafer based on the previously defined wafer size and X/Y step spacing. Coloured squares represent exposed dies. The colour will depend on the pass name (green is the default colour). Pale squares show unexposed dies. In an ARRAY pass, mouse clicking on a square will 'drop out' the exposure.



# H&L Associates' Stepper Job Creation

Version 2.1Beta for MOP 7.3 [Demo]

⇐Job Parameters (back) | Print | ⇒Template | ⇒Job file

Pass List: PASS MIN

Add | Del | New | Save

CSV Import: Browse... ⇐Get data

Array or Plug: Array

Dropouts

Delete

## Pass Parameters

Name: PASS MIN

Comment:

Use local alignment: No

Microscope focus offset: 0 *0.1 µm(± 2000)*

AWA filename: NONE **.SRX**

Pass shift

X

Y

Add Offset

Exposure ▲

Exposure time: 0

Focus offset: *0.1 µm (± 1000)*

Use match: No

Match template filename: NONE

Match every Nth wafer: 1 *(0-999)*

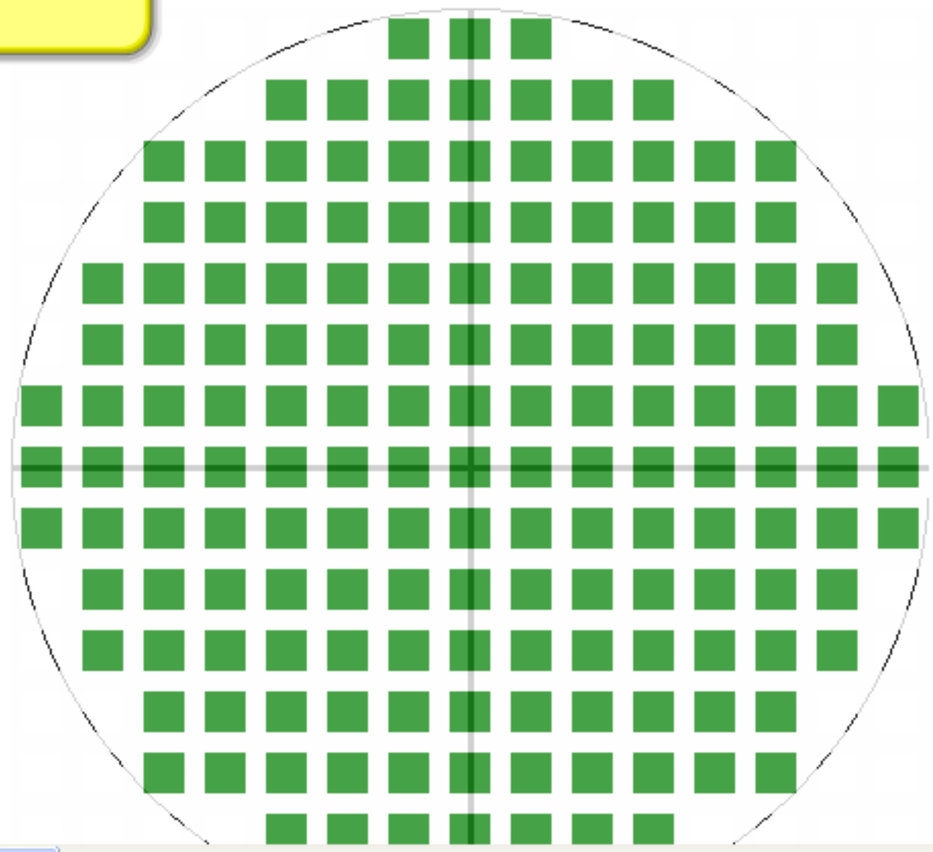
Reticle rotation offset: *ppm(±67)*

Reticle transmission: *%(-1,0-300)*

Local_Alignment ▼

RMS ▼

Mouse clicking on these menu bars will present the choices for each group of pass parameters. In this case, the EXPOSURE parameters are displayed



# H&L Associates' Stepper Job Creation

Version 2.1Beta for MOP 7.3 [Demo]

⇐Job Parameters (back) | Print | ⇒Template | ⇒Job file

Pass List: PASS MIN

Add | Del | New | Save

CSV Import: Browse... ⇐Get data

Array or Plug: Array

Dropouts

Delete

Offset X

Y: Add Offset

## Pass Parameters

Name: PASS MIN

Comment:

Use local alignment: No

Microscope focus offset: 0 *0.1 µm(± 2000)*

AWA filename: NONE **.SRX**

### Pass shift

X: *mm (±100.0)*

Y: *mm (±100.0)*

### Exposure ▲

Exposure time: 0 *sec (0-128.000)*

Focus offset:

Use match: No

Match template filename: NONE

Match every Nth wafer: 1

Reticle rotation offset:

Reticle transmission:

### Local_Alignment ▲

Mouse clicking on this menu bar will present the choices for the Local Alignment parameters. If 'Use local alignment' is set to 'NO' (option above) then these parameters will be grayed out. If 'Local Alignment Type' is set to 'NONE' in the main page (the machine specifications) then these choices will not appear.

Map every Nth wafer: 1

Monitor mapping: No

Use 2-pt align: No

Rotation tolerance: 1 *µrads(0.0-20.0)*

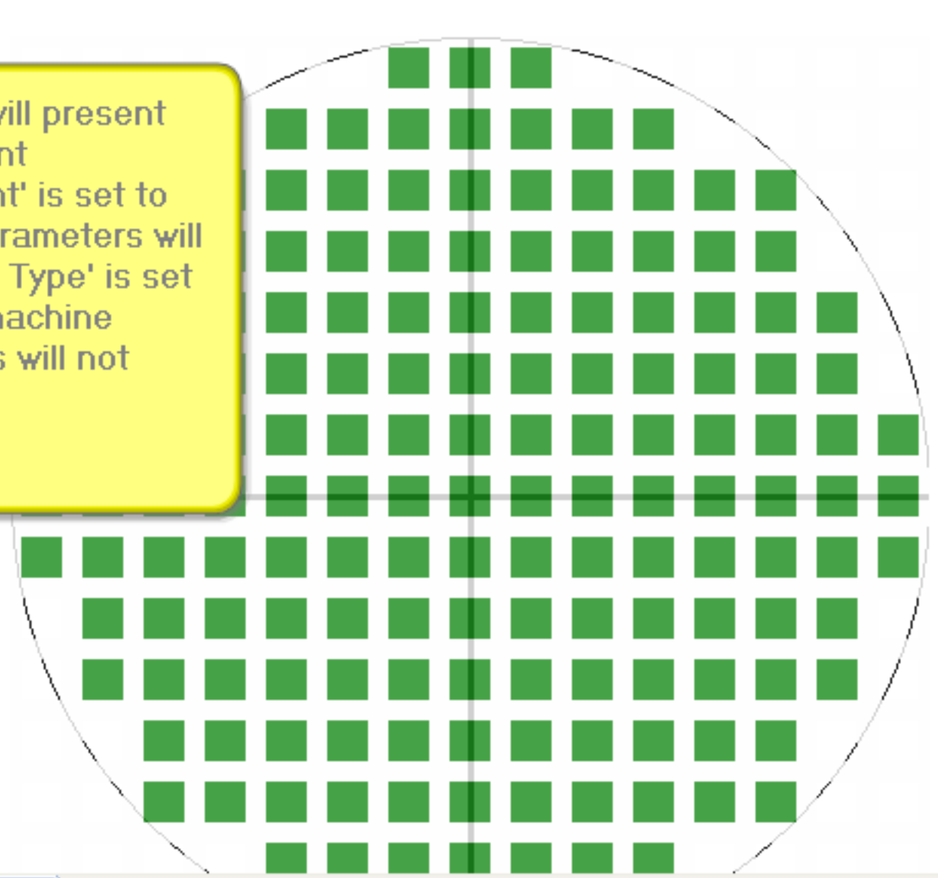
Continue with mapping: Yes

Expose mapping pass: No

Alignments per die: 1 *(1-10)*

### Mark offsets

1 X: Y: mm (±10.0)



| | | |
|---|---|---|
| Exposure time | 0 | *sec (0-128.000)* |
| ıcus offset | | *0.1 µm (± 1000)* |
| Jse match | No | |
| Match template filename | NONE | |
| Match every Nth wafer | 1 | *(0-999)* |
| Reticle rotation offset | | *ppm(±67)* |
| Reticle transmission | | *%(-1,0-300)* |

**Local_Alignment ▲**

| | | |
|---|---|---|
| Map every Nth wafer | 1 | *(0-999)* |
| Monitor mapping | No | |
| Use 2-pt align | No | |
| Rotation tolerance | 1 | *µrads(0.0-20.0)* |
| Continue with mapping | Yes | |
| Expose mapping pass | No | |
| Alignments per die | 1 | |

**Mark offsets**

| | | |
|---|---|---|
| 1 X: | | |

**RMS ▲**

| | | |
|---|---|---|
| Reticle bar code | NON | |

Mouse clicking on this menu bar will present the choices for the RMS (reticle management system). If the RMS option is set to 'NO' in the main page (the machine specifications) then these choices will not appear.

**Masking aperture**

| | | |
|---|---|---|
| XL | | *mm (0.00-100.00)* |
| XR | | *mm (0.00-100.00)* |
| YF | | *mm (0.00-100.00)* |
| YR | | *mm (0.00-100.00)* |

**Reticle alignment offset**

| | | |
|---|---|---|
| XL | | *µm (±10)* |
| XR | | *µm (±10)* |
| Y | | *µm (±10)* |
| Mark phase | Negative | |
| Reticle transmission | | *%(-1,0-100)* |

# H&L Associates' Stepper Job Creation

Version 2.1Beta for MOP 7.3 [Demo]

- **[2009/03/23 10:00] ... Template file "Job1.tmpl" created (1713 bytes in size)**

⇐Job Parameters (back) | Print | ⇒Template | ⇒Job file

Pass List PASS MIN

Add

Pressing 'Template' will save all the current job information in a local file. This template file can be retrieved later and the job data used as the basis for a new job. A message will appear to confirm the action and indicate the size of the stored template file.

SV Import Browse... ⇐Get data

ay or Plug Array

Dropouts

Delete

**Pass Parameters**

Name PASS

Comment

Use local alignment No

Microscope focus offset 0

AWA filename NONE .SRX

Pass shift

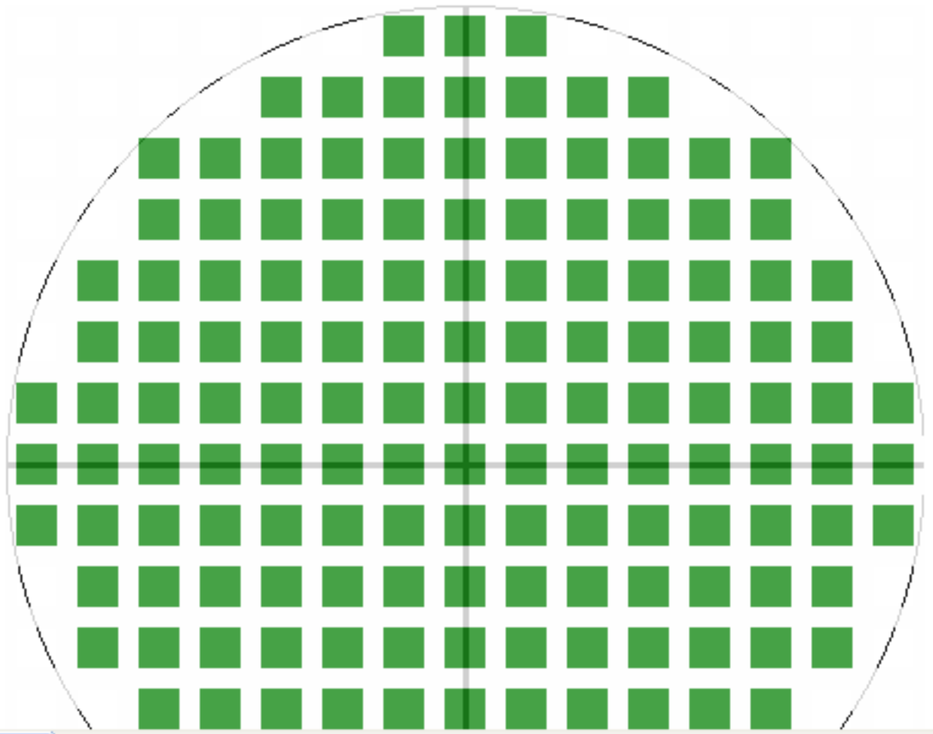
X mm (±100.0)

Y mm (±100.0)

Offset X

Y Add Offset

Exposure ▼
Local_Alignment ▼
RMS ▼



# H&L Associates' Stepper Job Creation

Version 2.1Beta for MOP 7.3 [Demo]

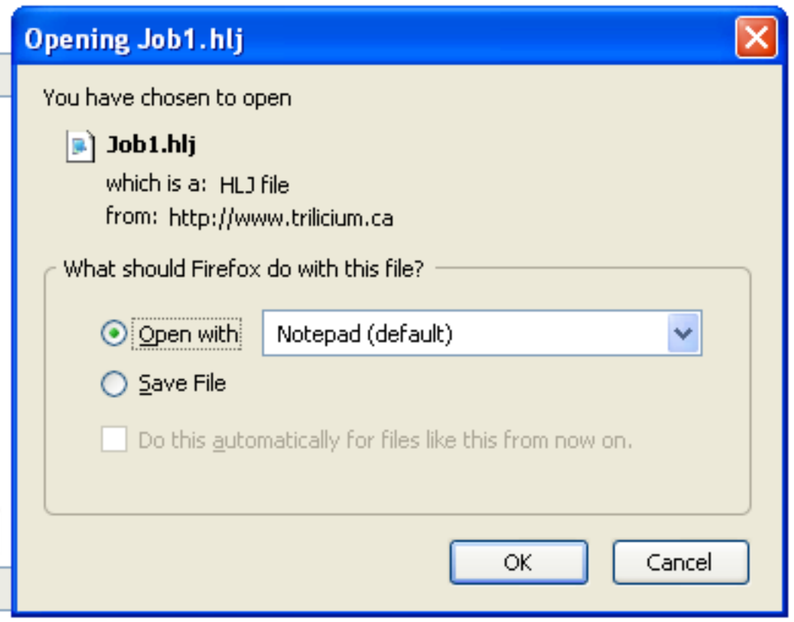
- [2009/03/23 10:00] ... Job file "Job1.hlj" created (320 bytes in size) Download Job1.hlj

⇐Job Parameters (back) | Print | ⇒Template | ⇒Job file

Pass List PASS MIN

Add | Del

Pressing 'Job file' will turn all the current job information into a stepper compatible data file. A message will appear to confirm the action and to present the user with a download button. Pressing 'Download' will start a transfer of the job file to the user. Save this file and then upload it to your stepper (using Kermit for example).




## Pass Parameters

Name PASS MIN

Comment

Use local alignment No

Microscope focus offset 0

AWA filename NONE

### Pass shift

X mm (±100.0)

Y mm (±100.0)

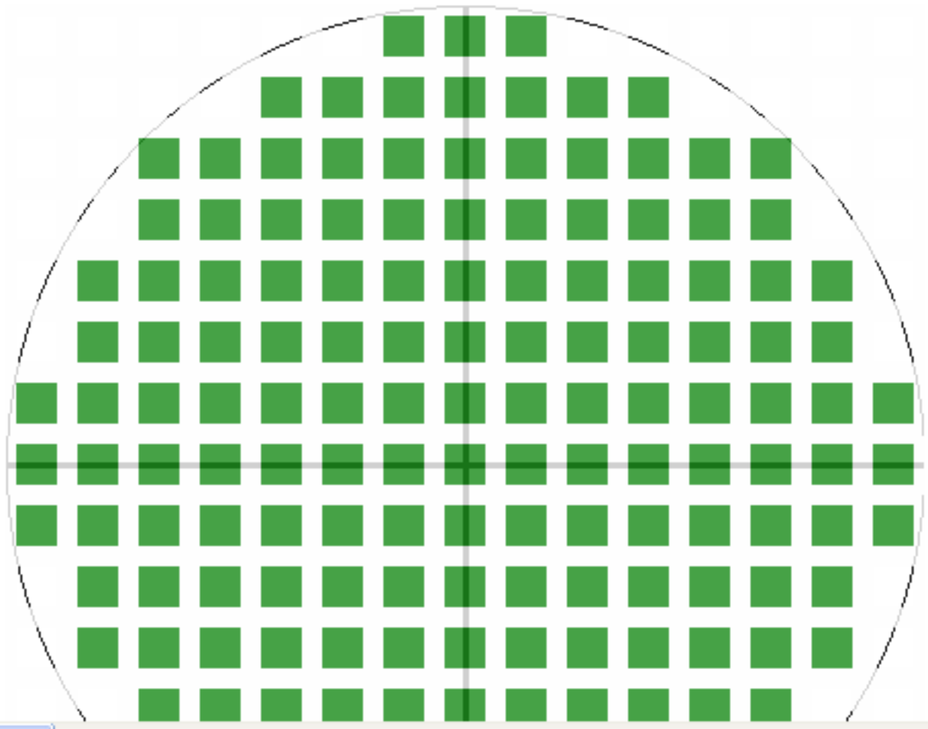
Offset X

Y Add Offset

Exposure ▼

Local_Alignment ▼

RMS ▼



# H&L Associates' Stepper Job Creation

Version 2.1Beta for MOP 7.3 [Demo]

- **[2009/03/23 10:01] ... Pass "B" data saved**

⇐Job Parameters (back) | Print | ⇒Template | ⇒Job file

Pass List: B

Add | Del | New | Save

CSV Import: Browse... ⇐Get data

Array or Plug: Array

Dropouts:

**Pass Parameters**

Name: B

Comment:

Use local alignment: No

Microscope focus offset: 0

AWA filename: NONE

Pass shift

X:

Y:

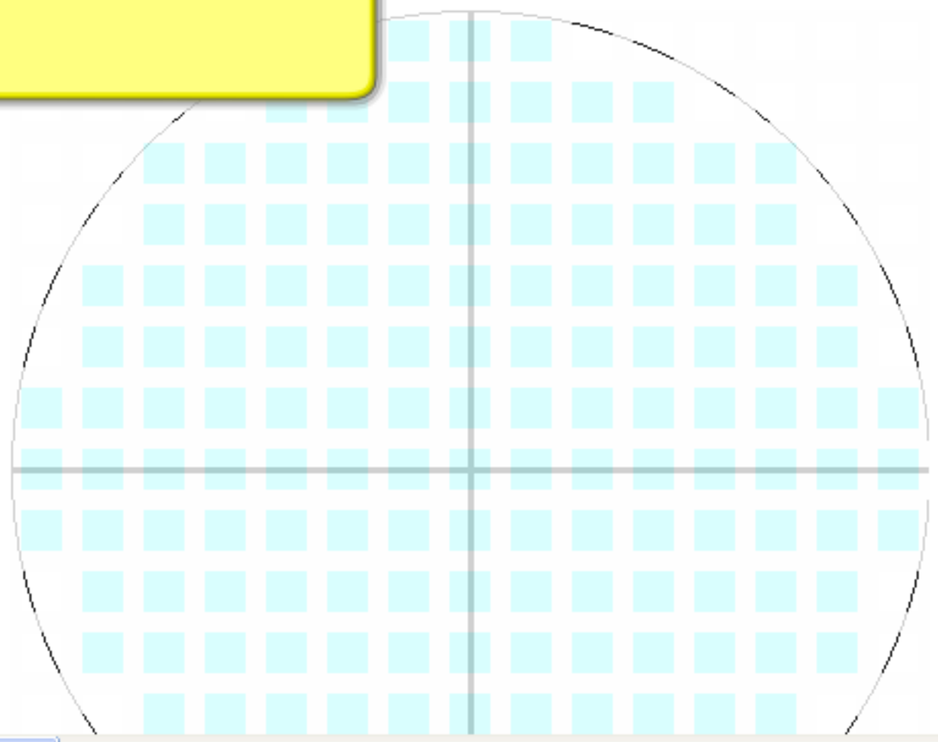
Exposure ▼

Local_Alignment ▼

RMS ▼

Add Offset

Pressing 'Save' will save the current pass information, replacing the information already stored for the pass whose name appears in the pass list. In this case, pass 'B' information will be updated with the information on the screen. The actual pass name could be changed using the 'Save' button. A message to this effect will appear at the top of the screen. If a colour has been selected for this pass name (from the main page) then the wafer display will be updated. Here, the pass name 'B' has been assigned a colour different from the default of green.



# H&L Associates' Stepper Job Creation

Version 2.1Beta for MOP 7.3 [Demo]

- **[2009/03/23 10:01] ... Pass "B" data saved**

⇐Job Parameters (back) | Print | ⇒Template | ⇒Job file

Pass List B

Add

Add new p

Pressing 'Add' will create a new pass object using the currently displayed pass information and add it to the pass list. The pass 'Name' must be different from any existing pass name in the list. The drop down pass list will be updated, in this case with a pass named 'F'.

Browse... ⇐Get data

**Pass Parameters**

Name F

Comment

Use local alignment No

Microscope focus offset 0 *0.1 µm(± 2000)*

AWA filename NONE **.SRX**

Pass shift

X *mm (±100.0)*

Y *mm (±100.0)*

Delete

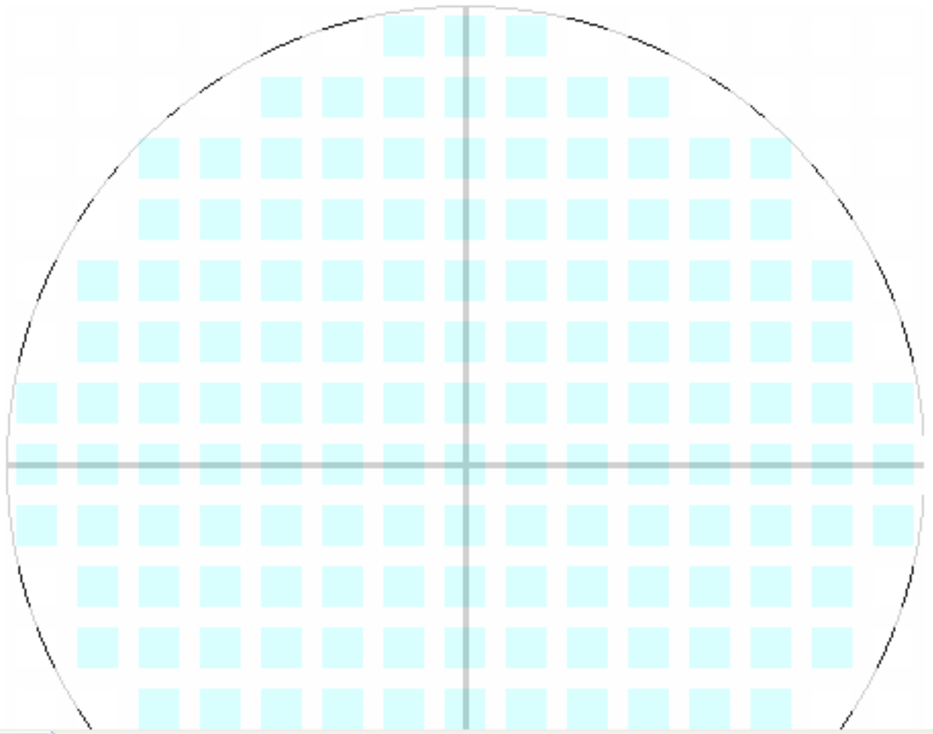
Offset X

Y Add Offset

Exposure ▼

Local_Alignment ▼

RMS ▼



# H&L Associates' Stepper Job Creation

Version 2.1Beta for MOP 7.3 [Demo]

⇐Job Parameters (back) | Print | ⇒Template | ⇒Job file

Pass List: F

B
F

CSV Import: Browse... ⇐Get data

The pass drop down list now contains the information for two passes: B (which was the new name for an existing default pass) and F (which was created and added).

**Pass Parameters**

Name: F

Comment:

Use local alignment: No

Microscope focus offset: 0 *0.1 µm(± 2000)*

AWA filename: NONE **.SRX**

Pass shift

X: *mm (±100.0)*

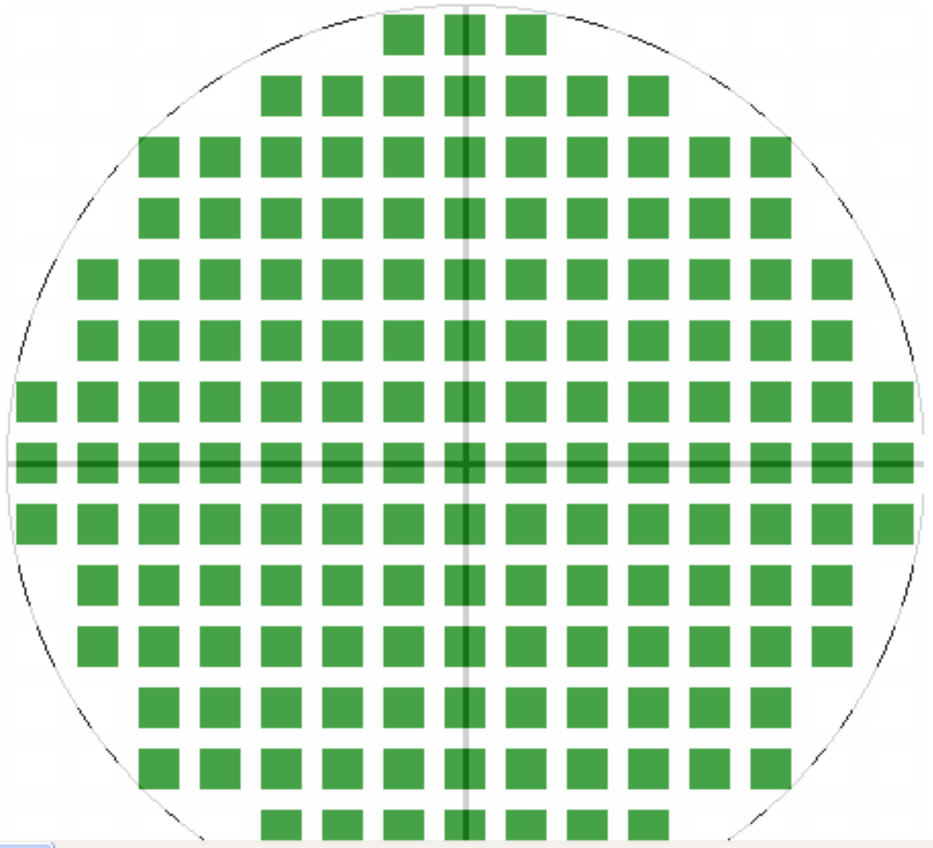
Y: *mm (±100.0)*

Delete

Offset X:

Y: Add Offset

Exposure ▼
Local_Alignment ▼
RMS ▼



# H&L Associates' Stepper Job Creation

Version 2.1Beta for MOP 7.3 [Demo]

⇐Job Parameters (back) | Print | ⇒Template | ⇒Job file

Pass List: F

Add | Del | New | Save

CSV Import: Browse... ⇐Get data

Array or Plug: Array

Dropouts

Delete

Offset X

Y: Add Offset

## Pass Parameters

Name: F

Comment:

Use local alignment: No

Microscope focus offset: 0 *0.1 µm(± 2000)*

AWA filename: NONE **.SRX**

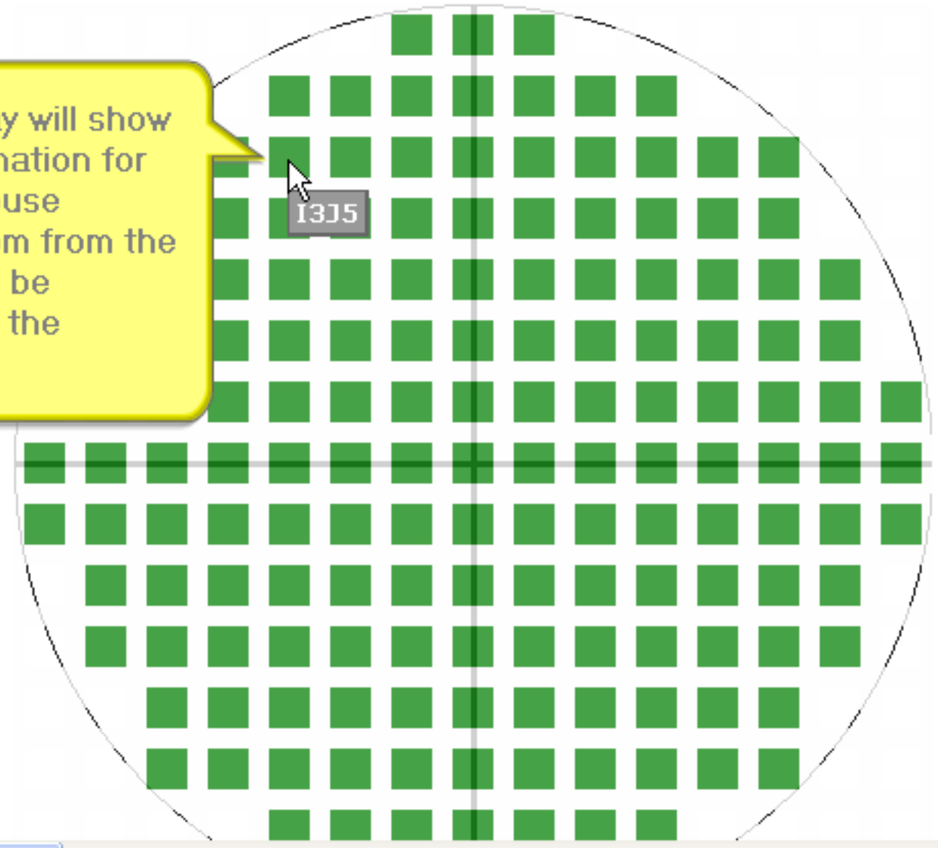
Pass shift

X: *mm (±100.0)*

Y: *mm (±100.0)*

Exposure ▼
Local_Alignment ▼
RMS ▼

Hovering over a die in the display will show the row (I) and column (J) information for that die. In an ARRAY pass, mouse clicking on the die will drop it from from the pass. The dropout list above will be updated with the coordinates of the dropped die.



# H&L Associates' Stepper Job Creation

Version 2.1Beta for MOP 7.3 [Demo]

⇐Job Parameters (back) | Print | ⇒Template | ⇒Job file

Pass List: F

Add | Del | New | Save

CSV Import: Browse... ⇐Get data

Array or Plug: Array

Dropouts:
I7J5
I6J5
I5J5
I4J5
I6J8
I6J9
I7J9
I8J9
I8J8
I7J8

Delete

**Pass Parameters**

Name: F

Comment:

Use local alignment: N

Microscope focus offset: 0

AWA filename: N

The dropout list is updated with the coordinates of the dropped die. Highlighting one of more die locations in this list, and then pressing 'Delete' will restore the dropped dies to the pass.

Pass shift

X: mm (±100.0)

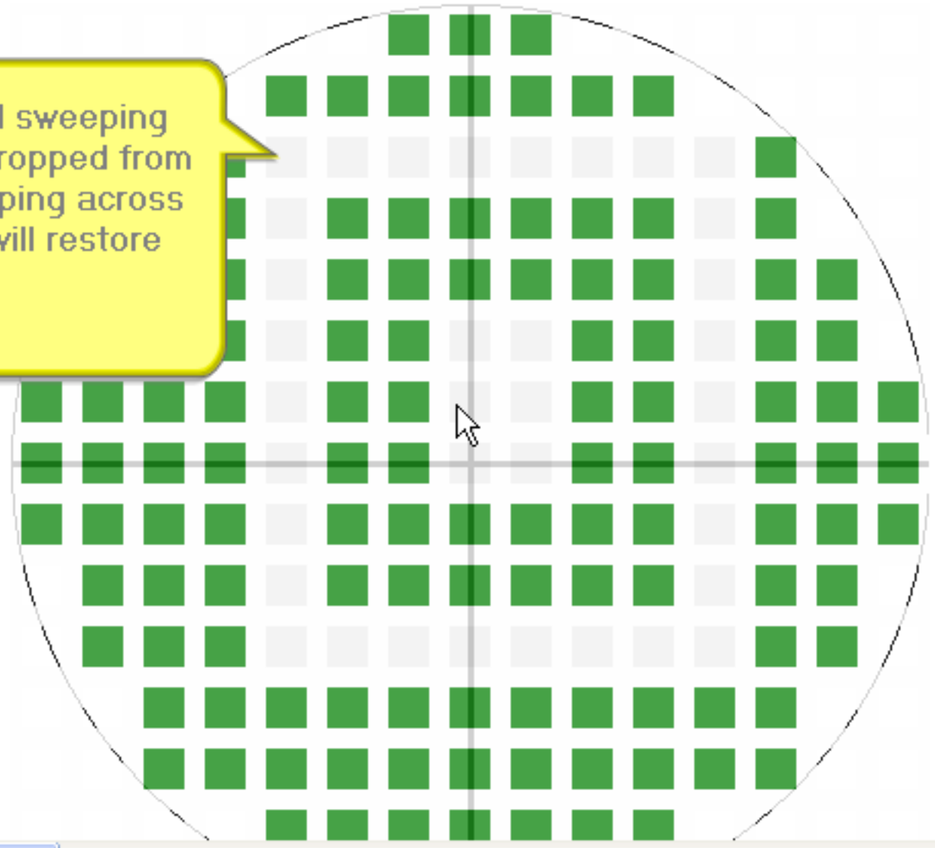
Y: mm (±100.0)

Offset X:

Y: Add Offset

Exposure ▼
Local_Alignment ▼
RMS ▼

By holding down the left mouse button and sweeping across multiple dies, several dies can be dropped from the pass. Alternatively, clicking on or sweeping across empty spots (dropped dies) in the display will restore the die to the exposure pass.



# H&L Associates' Stepper Job Creation

Version 2.1Beta for MOP 7.3 [Demo]

⇐Job Parameters (back) | Print | ⇒Template | ⇒Job file

Pass List F

The pass can be changed to a PLUG pass using this dropdown list. If dropouts were previously specifed for an ARRAY pass, then these will be converted to plugs in the PLUG pass and the 'Dropout' list will become a 'Plugs' list.

**Pass Parameters**

Name

Comment

Use local alignment

Microscope focus offset

AWA filename NONE .SRX

Pass shift

X *mm (±100.0)*

Y *mm (±100.0)*

Exposure ▼
Local_Alignment ▼
RMS ▼

CSV Import Browse... ⇐Get data

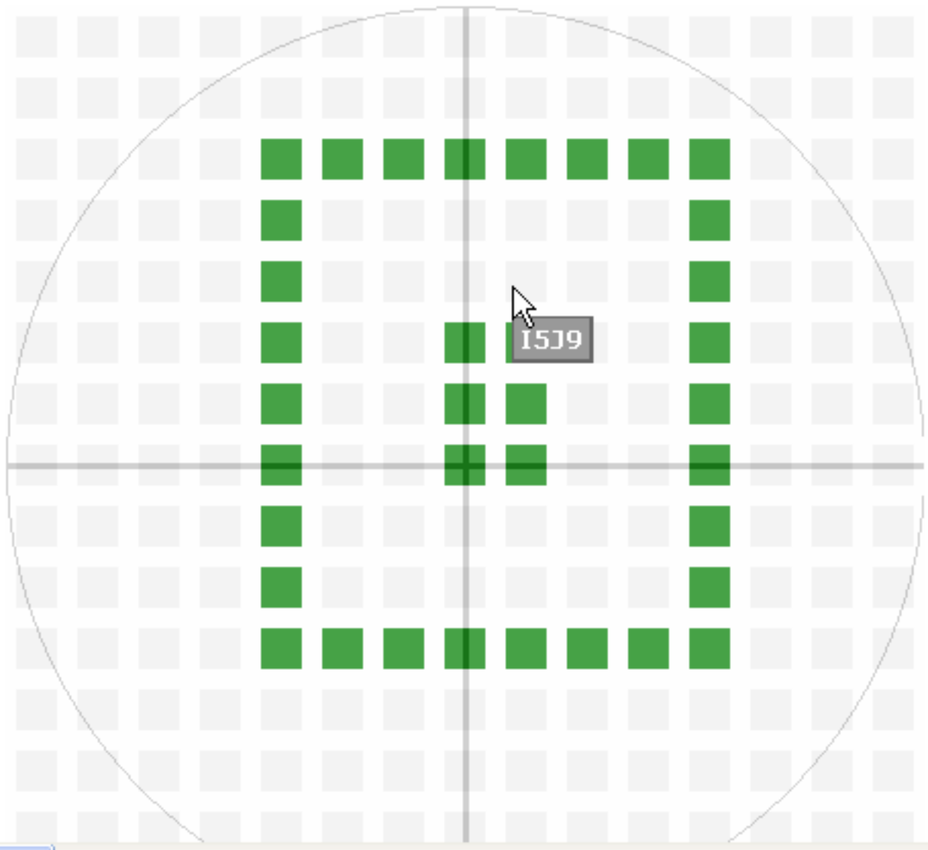
Array or Plug Plug

Plugs
I7J5
I6J5
I5J5
I4J5
I6J8
I6J9
I7J9
I8J9
I8J8
I7J8

Delete

Offset X

Y Add Offset



# H&L Associates' Stepper Job Creation

Version 2.1Beta for MOP 7.3 [Demo]

⇐Job Parameters (back) | Print | ⇒Template | ⇒Job file

Pass List F

Add | Del | New | Save

CSV Import | Browse... | ⇐Get data

Array or Plug: Plug

Plugs:
I3J9
I3J10
I3J11
I3J12
I4J12
I5J12
I6J12
I7J12
I8J12
I9J12

Delete

Offset X

Y | Add Offset

**Pass Parameters**

Com

Use local alig

Microscope focus

AWA file

Pas

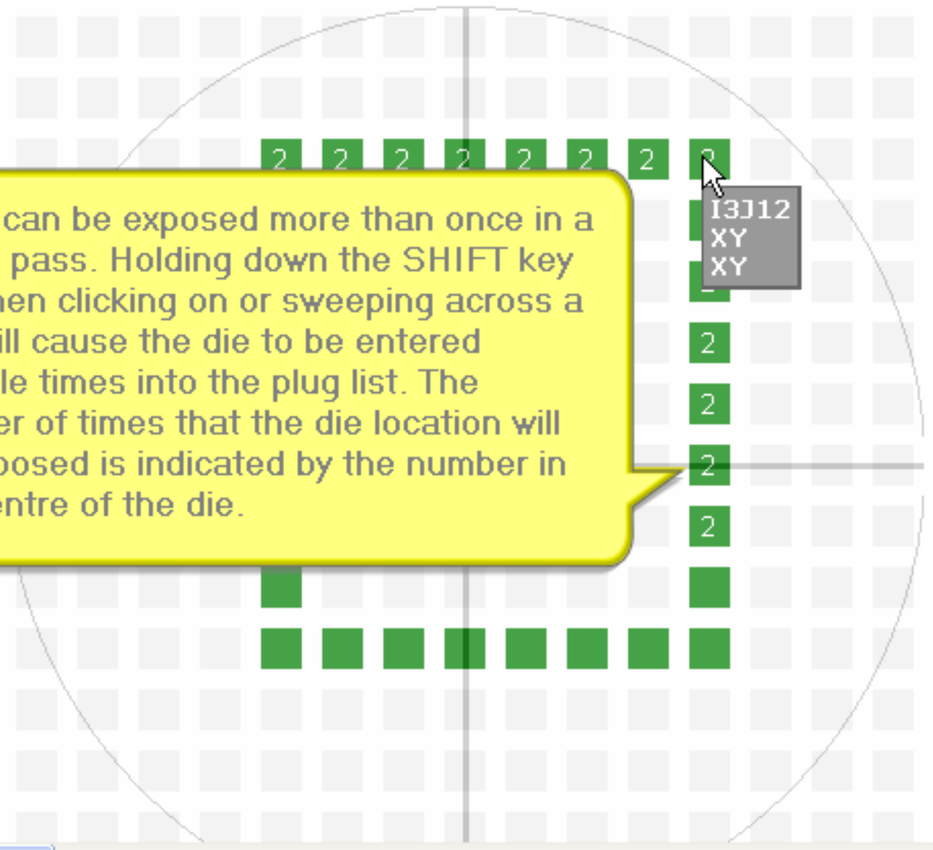
Exposure ▼

Local_Alignment ▼

RMS ▼

Each plug can be offset. To add an X-Y offset to the plug:
1. highlight one of more plugs in the list
2. enter X and Y offset values
3. press 'Add Offset'

The X-Y offset value will be appended to the die coordinate in the list. The offset will also appear if you hover over a die in the display.




Plugs can be exposed more than once in a PLUG pass. Holding down the SHIFT key and then clicking on or sweeping across a die will cause the die to be entered multiple times into the plug list. The number of times that the die location will be exposed is indicated by the number in the centre of the die.

# H&L Associates' Stepper Job Creation

Version 2.1Beta for MOP 7.3 [Demo]

⇐Job Parameters (back) | Print | ⇒Template | ⇒Job file

Plug/dropout information can be imported from a simple text file in CSV (comma separated variable) format i.e. row,column,pass name . First browse on the local user computer for the CSV file and select it. Press the 'Get data' button. New passes will be created with the new pass names. If the pass name exists, its plug/dropout data will be replaced with the imported data. If a pass named 'CSV' exists in the pass list then it will serve as a template for all other settings of the imported passes.

CSV Import IVE\Wafer 084683_01.txt Browse... ⇐Get data

Upload plugs/dropouts from a spreadsheet file

Array or Plug: Plug

Plugs:
I3J9
I3J10
I3J11
I3J12
I4J12
I5J12
I6J12
I7J12
I8J12
I9J12

Delete

Offset X

Y Add Offset

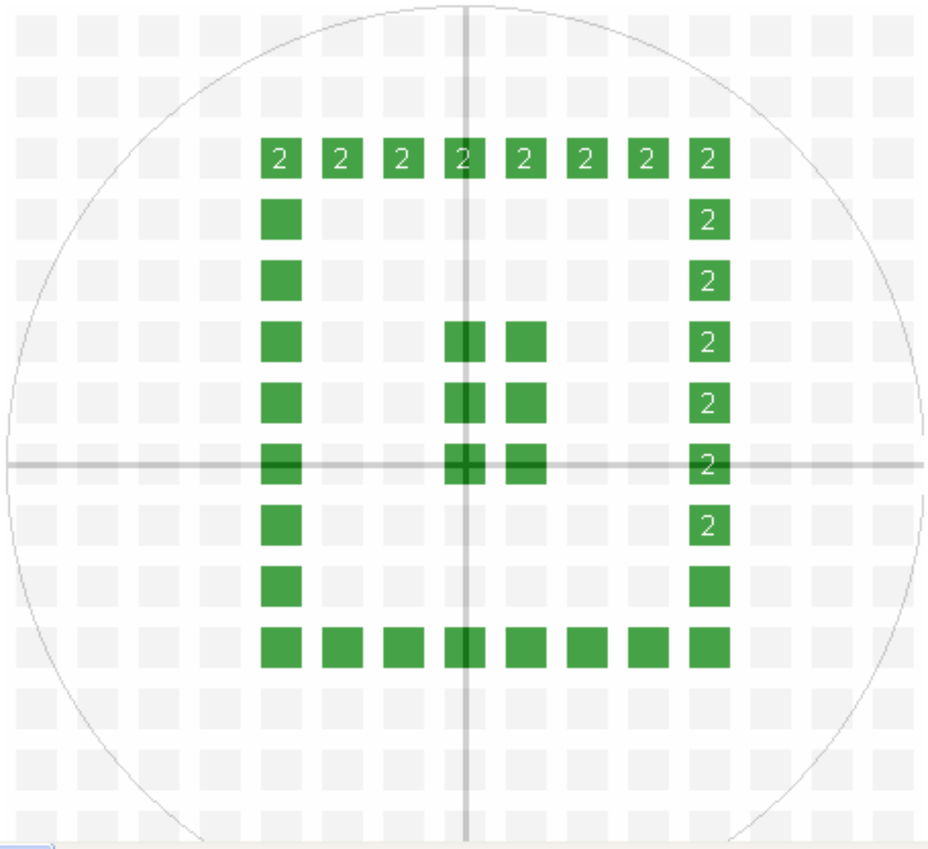
Pass

Use

Microsc

Y mm (±100.0)

Exposure ▼
Local_Alignment ▼
RMS ▼



# H&L Associates' Stepper Job Creation

Version 2.1Beta for MOP 7.3 [Demo]

- **[2009/03/23 10:03] ... CSV data imported from file**

⇐Job Parameters (back) | Print | ⇒Template | ⇒Job file

Pass List F

B
F
TEST
E

⇐Get data

After importing CSV data, the pass list will be updated and the newly created passes will be shown.

**Pass Parameters**

Name F

Comment

Use local alignment No

Microscope focus offset 0 *0.1 µm(± 2000)*

AWA filename NONE **.SRX**

Pass shift

X *mm (±100.0)*

Y *mm (±100.0)*

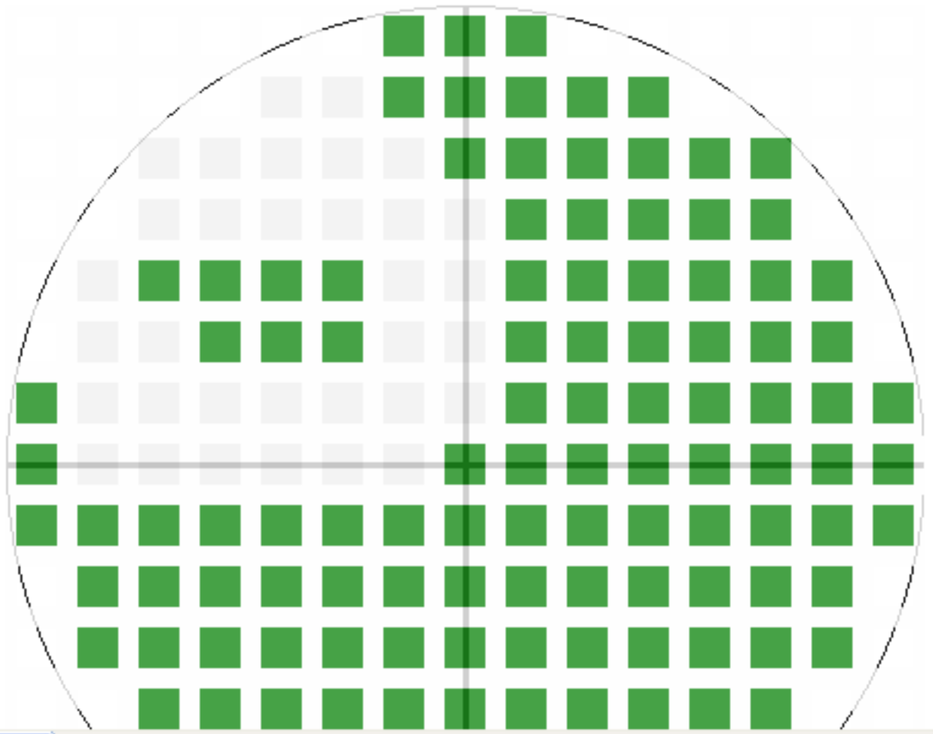
Exposure ▼
Local_Alignment ▼
RMS ▼

I8J7
I8J6
I8J5
I8J4
I8J3
I8J2
I7J8
I7J7
I7J6

Delete

Offset X

Y Add Offset



# H&L Associates' Stepper Job Creation

Version 2.1Beta for MOP 7.3 [Demo]

⇐Job Parameters (back) | Print | ⇒Template | ⇒Job file

Pass List: TEST

- B
- F
- TEST
- E

CSV Import: Browse... ⇐Get data

The wafer display will be updated to show the exposed dies for the currently highlighted pass in the pass list. Here, new passes (E and TEST) were created from the imported data and added to the list.

**Pass Parameters**

Name: TEST

Comment:

Use local alignment: No

Microscope focus offset: 0 *0.1 µm(± 2000)*

AWA filename: NONE **.SRX**

Pass shift

X: *mm (±100.0)*

Y: *mm (±100.0)*

Exposure ▼
Local_Alignment ▼
RMS ▼

Delete

Offset X:

Y: Add Offset