

Transaction Information

| | |
|---------------------|----------------------|
| Tool ID | LASC702 |
| Tool Status | Connected |
| Location | Woodlands, Singapore |
| Wafer Size | 300 mm |
| Fab Section | Lithography |
| Tool Available Date | 2021-09-30 |

General Product Information

| | |
|-------------------|-----------------------|
| Vendor Supplier | ASML |
| Model | XT1250D |
| Vintage | 2013 |
| Serial No | 3231 |
| Asset Description | 193nm ArF dry scanner |
| Software Version | release 4.1 |
| CIM | SECS |
| Process | 65nm and above |

Hardware Configuration (Fab)

| System Type | Description | Quantity | Status |
|-------------------|----------------------|----------|--------|
| Main System | Body | 1 | OK |
| Handler System | wfr handler to Track | 1 | OK |
| Factory Interface | NONE | | |
| Options System | | | |
| Others | | | |

Hardware Configuration (Subfab / Auxilliary Units)

| Description | Quantity | Status |
|-------------|----------|--------|
| NONE | | |

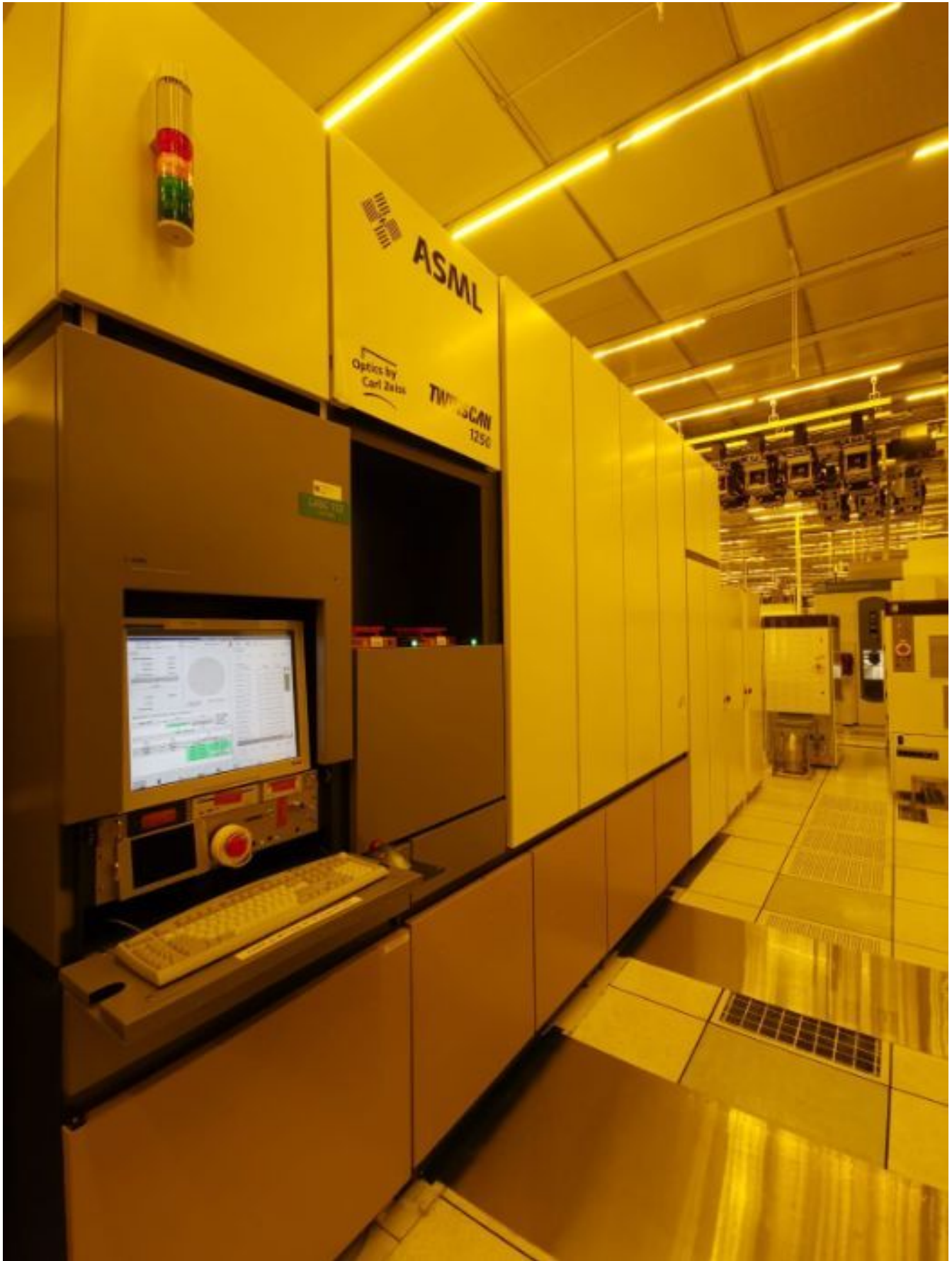
Missing/Faulty Parts / Accesories List

| Description | Quantity |
|-------------|----------|
| NONE | |

Tool Pictures

General

body



Hardware Sub-fab

MDC, filter cabinet, LCWC, MCWC,
Laser , ACC



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Manufacture Serial

number plate



Additional Configuration Files

Operator:ASML
Time:16:21

Machine:3231

Release:4.1.0

Date:21/09/2021

Report Filename : EMZC.96
Report Path : TM/MetrologyCalibration/InitXYplane/EMZC.log/
Machine Type : 1250D

Testname : Ilias Lens Set-up
Start Time : Tue, 21 Sep 2021 15:14:30 991625us +0800
Stop Time : Tue, 21 Sep 2021 16:20:19 025453us +0800
Execution Time : 01:05:48
Test Run Result : Finished
Test Status : Test is Finished
Machine Constants : Not Saved
Results Validation : N.A.
Measurement Quality : N.A.
Comment :

```

+-----+-----+-----+-----+-----+
+
+ |          Step          | Start Time | Stop Time | Status  | Execution
Time |
+=====+=====+=====+=====+=====+
+ | Initialize Data      | 15:14:31  | 15:14:32  | Finished | 00:00:01
+ | Prepare Machine     | 15:14:32  | 15:17:10  | Finished | 00:02:37
+ | Perform Measurements | 15:17:10  | 16:19:20  | Finished | 01:02:10
+ | Model                | 16:19:20  | 16:20:19  | Finished | 00:00:58
+
+-----+-----+-----+-----+-----+
+

```

Scenario Inputs

Selected Scenario : Manual
Verification Set : No Verification

lens data A702.txt

Overrule Inputs : Yes
Manual Scenario Selected : Yes

Test Info

Machine ID : 3231
Machine type : 1250D
Lens ID : 0126474a
ELLE ID : 96611
Testlog : ZSCA_3231_20210921_1517_manual.tlg
Date and time of measurement : 09/21/2021 15:17
Reticle ID : 45564101P110
Measurements layout : UV13X2
Clearout reticle : Yes
Chuck ID : Chuck 2
Number of cycles : 1
Number of Y positions : 5
Lens Temperature : 22.00 [C]
Lens Pressure : 1006.72 [mbar]

Lens Stability

Zernike delta over measurement time

| | Delta | Spec. | In Spec. |
|-----|--------|-------|----------|
| | [nm] | [nm] | |
| Z5 | -0.052 | 2.000 | Yes |
| Z7 | 0.116 | 2.000 | Yes |
| Z9 | 0.241 | 2.000 | Yes |
| Z14 | -0.015 | 2.000 | Yes |
| Z16 | 0.091 | 2.000 | Yes |

RMS values

| | Current | After Correction | | | Deltas | | |
|--|---------|------------------|------|------|--------|------|--|
| | | NEXZ | +SA | NEXZ | SA | Both | |
| | [nm] | [nm] | [nm] | [nm] | [nm] | [nm] | |
| | | | | | | | |

lens data A702.txt

| Spherical | 0.90 | 0.85 | 0.85 | 0.06 | 0.00 | 0.06 | |
|-------------|------|------|------|-------|-------|-------|--|
| Coma | 1.08 | 1.04 | 0.95 | 0.05 | 0.08 | 0.13 | |
| Astigmatism | 1.05 | 1.05 | 1.04 | 0.00 | 0.01 | 0.01 | |
| 3-foil | 0.74 | 0.77 | 0.78 | -0.03 | -0.01 | -0.04 | |
| (Z5->Z37) | 2.19 | 1.82 | 1.81 | 0.37 | 0.01 | 0.38 | |
| (Z38->) | 0.96 | 0.96 | 0.96 | 0.00 | 0.00 | 0.00 | |