

## Transaction Information

Tool ID	LASC701 (LAAS701)
Tool Status	Connected
Location	Woodlands, Singapore
Wafer Size	300 mm
Fab Section	Lithography
Tool Available Date	2021-12-31

## General Product Information

Vendor Supplier	ASML
Model	XT 1250 D
Vintage	2005
Serial No	7337
Asset Description	193 nm Arf dry Scanner
Software Version	release _410
CIM	SECs
Process	65 nm and above

## Hardware Configuration (Fab)

System Type	Description	Quantity	Status
Main System	Main 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
LCWC/MCWC	1	OK
ACC	1	OK
MDC	1	OK
Filter Cabinet	1	OK
Cymer Laser	1	OK

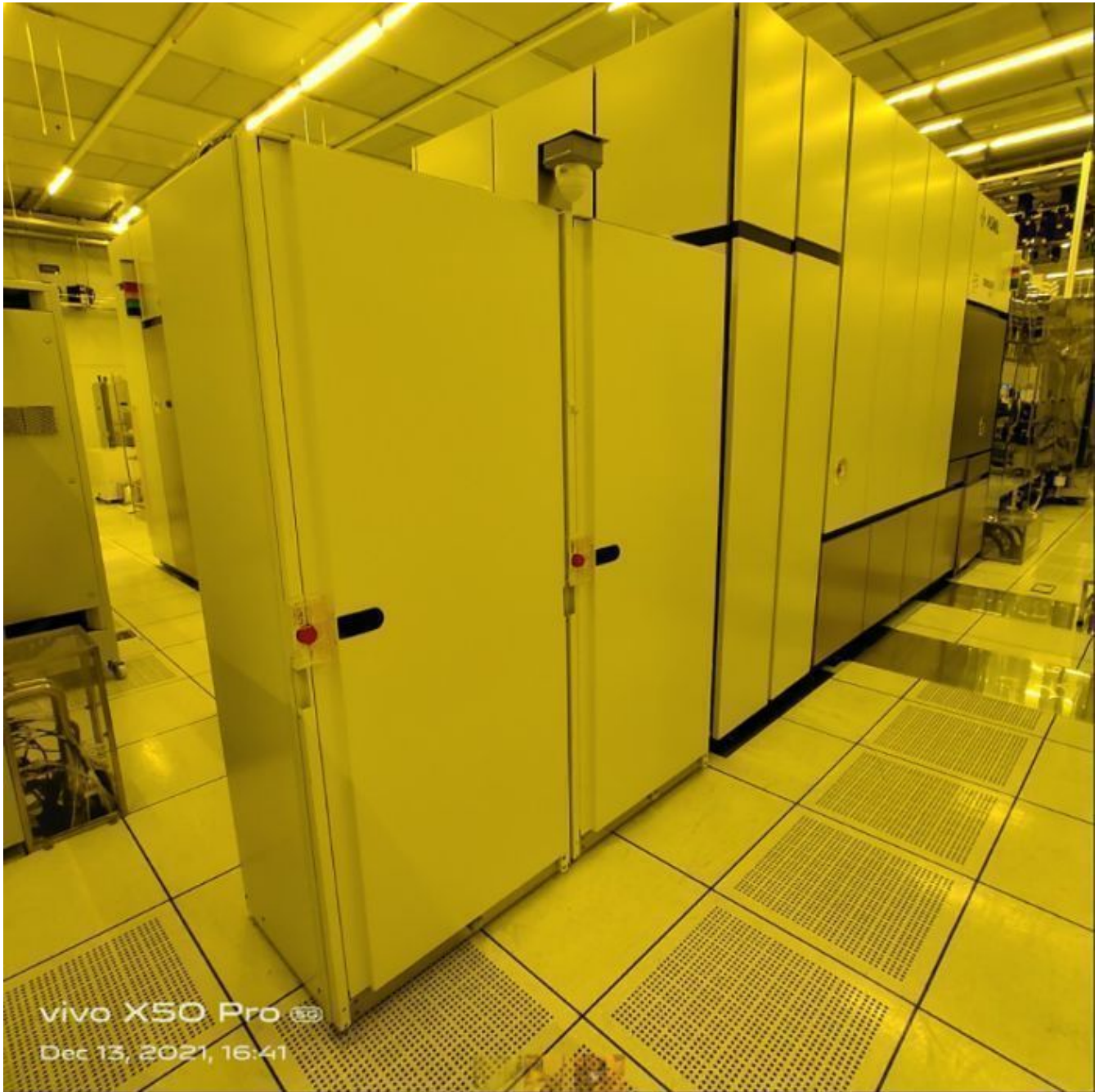
## Missing/Faulty Parts / Accesories List

Description	Quantity
NONE	

# Tool Pictures

General

Main Body





Hardware Sub-fab

CymerLaser/MDC/MCWC/LCWC/  
ACC/Filter Cabinet





Hardware Sub-fab

CymerLaser/MDC/MCWC/LCWC/  
ACC/Filter Cabinet



Hardware Sub-fab

CymerLaser/MDC/MCWC/LCWC/  
ACC/Filter Cabinet



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Dec 13, 2021, 11:10

Hardware Sub-fab

CymerLaser/MDC/MCWC/LCWC/  
ACC/Filter Cabinet





Hardware Sub-fab

CymerLaser/MDC/MCWC/LCWC/  
ACC/Filter Cabinet



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Manufacture Serial

Serial No. Plate



Manufacture Serial

Serial No. Plate



## Additional Configuration Files



Machine: 7337  
Type: 1250D  
Expiry date: No date

Configuration Items:

Track Pre-warning signal (APR)  
APR disabled

Avoid Track INPUT/OUTPUT conflicts, Raise AS after APR  
Avoid Track INPUT/OUTPUT conflicts disabled

Active wafer release for dry WS  
False

Closing disk type  
No closing disk present

Safeguard to prevent loading of reticles with too wide or mispositioned  
pellicles Disabled

Continuous clampable wafer table for dry WS  
Absent

Type of wafertable on chuck 2 for immersion machine  
Zerodur version 1

Type of wafertable on chuck 1 for immersion machine  
Zerodur version 1

WS Immersion throughput package  
None

WS Immersion thermal control package  
None

extended docking interface at Prealigner  
ECC\_OMM

Wafer Stage Configuration  
Wafer Stage type 2 configuration

Wafer Carrier Location  
Right

Wafers per Carrier  
25

Wafer Mark Sensor  
Absent

Wafer Id Reader  
Absent

Wafer Size  
300mm

Wafer Track  
Present

Wafer Stage Type  
Dual Chuck

Wafer Stress Relaxation  
False

Lower Docking Plate  
Present

WS Balance Mass  
Stainless Steel

WH Robot Power Amplifier  
CPM 10

Wafer Stage Fast Stiff X Move Electronics  
Present

Wafer Stage Mirror Block Down Electronics  
Present

Universal Prealignment  
Disabled

Interferometer axis version at exposure  
3 plus 1 axis

Wafer Handling Pneumatics  
Dedicated

Wafer Switch  
Absent

Chuck 1 wafer size  
300mm

Chuck 2 wafer size  
300mm

Type of immersion hood for immersion  
None

Specifies chuck1 layout relev. for Immersion  
Chuck does not support immersion

Specifies chuck2 layout relev. for Immersion  
Chuck does not support immersion

Specifies chuck1 config  
Dry

Specifies chuck2 config  
Dry

Specifies chuck1 version  
not specified

Specifies chuck2 version  
not specified

Changed Short Stroke diff XY controller  
Disabled

Docking wheels at WH unload  
Present

Docking plate height  
Low

Immersion Hood version  
Absent

Carrier Handler Type  
Mark I 300 Foup

Wafer Handling Load Robot Type  
Double Fold Arm, 12 mm Z stroke

Wafer Handling Unload Robot Type  
Double Fold Arm, 12 mm Z stroke

Wafer Handling Store Unit  
Absent

Wafer Handler wrt BF Shifted in Z  
Not Shifted

Integrated Reticle Inspection System Clipped Status  
PPD2\_1 System;

Reticle streaming lite  
Disabled

Enhancements in Reticle Monitor  
no enhancements

Reticle streaming  
Disabled

Improvements for reticle handling  
Disabled

Extend IRIS maximum particles scanned to 50000.  
Absent

Zeroing type for Encoders Measurement System  
Using extra hall sensors for zeroing

Reticle Stage Chuck Type  
Glued Leafspring

Reticle Stage Chuck Type  
TYPE\_2: Glued LS, Pneum. GC, IFM / ENC

Nitrogen purging of Reticle Stage  
RS is not purged

Reticle Carrier Location  
Right

Integrated Reticle Inspection System  
PPD1 with IRIS1 functionality.

Integrated Reticle Library  
IRL with original functionality

Reticle Size  
6 inch

Reticle Carrier Tag Reader  
Present

Reticle Stage Long Stroke Motor Type  
Cobalt Ferro 18 teeth

Reticle Stage Long Stroke Config  
TYPE\_3:CoFe\_18 motor, SB controlled, int. vacuum supply, pneum GC

Automated Reticle Transport System  
Absent ( Overrules Present )

Reticle Stage Lenscooler Box  
Lenscooler Box with anti-aliasing Filter

Maximum Reticle ID Length  
24 Characters

Reticle Stage Measurement System on Scan  
Heidenhain Encoders

Relative direction of ws to rs on the X axis  
Same

RS Object Field  
Normal

Reticle exchange type  
Retex option: E

Iris feature Scan  
Absent

Reticle Handler type  
Original

2D Barcode Reader  
Absent

Integrated Reticle Inspection System Configuration.  
Disable creation of OSIRIS viewable files.

Settle time reduction to improve the throughput  
Don't care

Scan speed increase to improve the throughput  
Don't care

WS Immersion Hood Only Testrig  
Absent

Version of RS/WS IO library  
Version 1  
Dynamic Performance Calculation  
Mark 1  
Stages Sample Rate  
5.0 kHz  
Interferometer Electronics  
Ifsr  
Capacitive z-height sensor type.  
Dual Z sensor board  
Ifm config at measure side.  
8 axes  
UV Shutter Optimized Open Time  
Optimized UV Shutter Open Time V2  
DoseSystemPerformanceTest sequence  
Test sequence 1  
PEP-ADC Intensity  
Disable PEP-ADC Intensity;  
Online Lamp Peak  
Disable Online Lamp Peak;  
Dose Intensity Optimization  
Disable Dose Intensity Optimization;  
Laser Gas Life eXtension  
Disable Laser Gas Life eXtension;  
Type of multi foil lens element  
none  
Depolarizer type  
fixed depolarizer present  
PSE Location  
not applicable  
PCE Location  
not applicable  
Intensity Calibration Per DOE  
Disabled  
Pupil qualification method  
Centre of gravity method  
Polarized illumination amorph DOE.  
Only unpolarized illumination.  
Fresnel corrections for WSSS  
Disabled  
Is NA accuracy measurement allowed?  
Disabled  
Exchangeable Pupil Lens Element  
No EPLE  
Multifunction Active Lens Element  
0  
Multifunctional Active Elements  
0  
Use Sigma Calibration  
no Sigma Calibration  
Use Sigma WIP Preserving Offsets  
no Sigma WIP Preserving Offsets  
THFFC FDE model lens dependent  
Disabled



BALE Type  
Don't Care

TIS diffuser  
TIS diffuser absent

Determination of NA ellipticity  
Disabled

XML output for LITHOGUIDE  
Disabled

Use validity ranges around UIP data when Enabled.  
Use exact matching for UIP data

Number of EXLE elements  
0

Functional use of Active Elements  
ALE function as ALE

Polarization Shaping Element Retractor  
No PSER hardware installed in the machine

Method for alignment of the laser beam  
Align the beam by minimizing the uniformity tilt over the slit  
(LUBF)

Pupil TIS angular sensitivity calibration and correction  
TIS Pupil Measurement will not be improved

Describes at what plane the BMU measures  
BMU readings are directly used as if they are at DOE1 plane

Lens Type  
12

Light-source Architecture  
Laser

Light-source Type  
Cymer Laser: XLA 165

Light-source Wave-length  
193nm

DOSEMAPPER  
Present

DOSE\_MAPPER\_1  
Present

REMA architecture  
REMA C

Illuminator Type  
120

Zoom Axicon Architecture  
ZZA

Zoom Axicon Type  
120

NA Control Architecture  
NA2 Torlon

NA Control Type  
120

Automated DOE Exchanger  
Present

Automated DOE Exchanger Architecture  
5 slots MIP Control

UNICOM  
Present

UNICOM Architecture  
1 Motor  
Test Table  
Absent  
Imaging Electronics Architecture  
B Architecture  
Attenuator Type  
Variable  
Test Table Z Axis  
Worm Wheel  
PUPICOM  
Present  
PUPICOM Architecture  
DC Motor with gearbox  
Number of Z Lens Manipulators  
5  
Number of Active Lens Elements  
1  
Number of Bi-directional Active Lens Elements  
0  
Number of Active Manipulator Elements  
0  
Number of Active Elements  
1  
Number of Half Dome Mirrors  
0  
Number of Semi-Active X-Y Lens Manipulators  
4  
Setup sensor board version  
Setup SSD version 1  
Imaging Generic Power Amplifier  
Generic Power Amplifier  
Imaging Control Rack Configuration  
IPDR  
Type of projection multiplexer board  
MUX Absent  
LEC Rack in Electronic Architecture  
Present  
Projection GPA Configuration Version  
Version 2  
Number of Lens NEXZ Manipulators  
5  
Number of Lens Z Manipulators Using Camdisk  
0  
Spotsensor surface coating  
Bilateral  
Energy Sensor  
VLOC  
Spot Sensor Chuck 1  
VLOC  
Spot Sensor Chuck 2  
VLOC  
Modelling for MAXYS  
Absent

Uniformity Improvement Package  
Present

Number of pre-amps available per Z-manipulator  
0

Immersion  
Absent

Pupil measurements with ILIAS  
Present

Automatic CUA  
Absent

Beam Control  
Beam adjustment

Extended Spot Sensor Matching  
Present

Number of Rxm  
5

Number of Rym  
5

Diaphragm Limiter  
Absent

NA1 motor type  
None

Spot Sensor Reticle Stage  
Absent

Smooth Field Uniformity  
Absent

Exchangeable Last Lens Element  
Present

Exchangeable Pupil Lens Element  
Absent

Number of manipulable ELLE axes  
0

UV Shutter version  
UV Shutter version 1

Dosecontrol Hardware  
ISB

Illuminator platform  
Aerial 2

Polarization  
Absent

Automatic PCE exchanger  
Absent

Automatic CUA exchanger architecture  
Not applicable

Test table architecture  
Aerial 2

Illumination modes  
All illumination modes

DUV Lightsource Power Level  
45.00 Watt

Lens Top Tool Connection  
Lens Top Tool can be mounted on top of the Lens

Scanning Energy Sensor Calibration  
Static Energy Sensor Calibration

Position of Spot Sensor on Chuck 1  
Spot Sensor Position on Chuck 1 layout 1  
Position of Spot Sensor on Chuck 2  
Spot Sensor Position on Chuck 2 layout 1  
Z-capture for low reflectivity wafers  
Off  
TIS plate deformation correction  
Disabled  
FSM Flexibility package  
Disabled  
Field width optimised leveling  
Disabled  
Constrained fit  
Disabled  
Levelling throughput improvement on measure side  
No levelling throughput package  
Point-to-Point LS Machine Matching  
Disabled  
Circuit Dependent FEC  
Present  
Focus Monitoring  
Present  
Extended LS areas  
Disabled  
Air Gauge  
Absent  
Type of Air Gauge  
No Air Gauge device present  
Reticule shape correction  
Disabled ( Overrides Enabled )  
LS focus node  
LS focus node 3  
Level Sensor Processing Rack  
LCSR  
LS\_PEMM\_CONFIG  
Present  
LS\_CPU\_CONFIG  
3 CPU's available  
BaseLiner overlay high order intrafield  
BaseLiner-Overlay high order intrafield is disabled.  
BaseLiner focus high order intrafield  
BaseLiner-Focus high order intrafield is disabled.  
BaseLiner focus control.  
BaseLiner-Focus application is disabled.  
BaseLiner overlay control.  
BaseLiner-Overlay application is disabled.  
Pattern Matcher fullchip  
Absent  
Pattern Matcher  
Absent  
Maximum numerical aperture (NA) that can be used in Lot Production  
level 0  
Log missed translations  
Disabled



Allow even orders usage  
Present

Multilingual UI  
Absent

Improved Maintenance action scheduling.  
Disabled

Recipe Creator  
Light

Lot Report Data Category  
Enhanced Diagnostics

CDC  
Enabled

EFESE  
Absent

PED control mode  
Absent

Proximity Matching  
Present

mbds control  
Present

Enhanced exposures 1  
Present

Data collection not covered by FOCUS and OVERLAY  
InformPro Data Collection enabled.

Overlay Data Collection  
Overlay Data Collection enabled.

XML Lot Report Content Level  
Basic

Enable the Maintenance Assistant  
Disable Maintenance Assistant

EDA Interface  
Disabled

Equipment Constants via SECS interface  
Enabled

LCI WaitWatcher plug-in  
Absent

Reorder Lot Service  
Present

Shot Data Collection  
Absent

Focus Data Collection  
Present

Alignment Recipe Override  
Alignment Recipe Override Disabled

Alignment Strategy ID Standard or Extended. Protected.  
Alignment Strategy ID max length is 15 characters

Enable to support SMASH XY mark types.  
SMASH XY marks are not supported.

Specifies which mark types are supported  
ASML marks only

Alignment laser configuration  
2 color laser

OADB Improved Dynamic Range  
Disabled

board configuration  
    ODB + ADB  
Alignment Camera Mirror  
    Absent  
Athena Narrow Marks Twinscan  
    Present  
Alignment Sensor Type  
    Athena OM  
Athena Focus Improvements 1  
    Present  
Max alignment speed  
    Setting 1  
AA processing rack  
    AACR processing rack  
Particle Extraction Mass Flow Meter  
    Absent  
purging configuration  
    purging CONFIG 3  
Bubble Extraction Seal Setting  
    Not Applicable  
Ultra Pure Water flow controller (WICC)  
    absent  
LCW Circuit set-up  
    Flow Version 1  
In situ Wafer Table Stone Cleaning  
    Stone 1  
Clean Air Configuration  
    Others  
Metroframe Circuit Water Cabinet  
    Absent  
CT Miscellaneous Rack  
    Present  
Clean Air Temperature Control  
    Driver and ACC  
Purge Hoods configuration  
    Compressed Clean air and Extremely Clean Dry air  
Nitrogen Purge Utility Control  
    Absent  
Reticle Cleaning  
    Absent  
Metroframe type  
    TYPE\_I  
Inlet restriction for clean air  
    Inlet restriction at right side  
Reticle Stage purged mini environment  
    Present  
Gas Control Unit Type  
    High Flow (HF)  
Wet Imaging Control Cabinet  
    Not Applicable  
Readout location of Pneumatic Facility Unit sensors  
    Machine Base Diagnostics System (MBDS)  
Laminar Bottom Hood  
    Absent

Extreme Clean Humiditied Air  
Absent  
Lens Circuit Water Flow  
High  
Motor Circuit Water Flow  
Normal  
SPM temp correction for lens axis  
Disabled  
2 Sided IFM-beams for WS-X (expose)  
Not available  
2 Sided IFM-beams for WS-X (measure)  
Not available  
Diff pressure correction for IFM beams  
Absent  
IFM Laser Configuration  
AOM Recombo Laser  
Position Control Rack Configuration  
Rack Configuration type 3  
Position Control Power Rack Configuration  
TYPE\_3: Stages Power Rack upto E-spec  
Number of Motion Controllers  
5 Motion Controllers present  
Position Control Motion Control rack  
PMCR  
Reticle Stage Short Stroke X amp.  
PADC 100V/16A  
Reticle Stage Short Stroke Y11 amp.  
PADC 100V/16A  
Reticle Stage Short Stroke Y12 amp.  
PADC 100V/16A  
Reticle Stage Short Stroke Y21 amp.  
PADC 100V/16A  
Reticle Stage Short Stroke Y22 amp.  
PADC 100V/16A  
Wafer Stage Short Stroke 1 XY1 amp.  
PADC 100V/16A  
Wafer Stage Short Stroke 1 XY2 amp.  
PADC 100V/16A  
Wafer Stage Short Stroke 1 XY3 amp.  
PADC 100V/16A  
Wafer Stage Short Stroke 2 XY1 amp.  
PADC 100V/16A  
Wafer Stage Short Stroke 2 XY2 amp.  
PADC 100V/16A  
Wafer Stage Short Stroke 2 XY3 amp.  
PADC 100V/16A  
Reticle Stage Short Stroke Z1 amp.  
Pass Low Current 8.5A  
Reticle Stage Short Stroke Z2 amp.  
Pass Low Current 8.5A  
Reticle Stage Short Stroke Z3 amp.  
Pass Low Current 8.5A  
Wafer Stage Short Stroke 1 Z1 amp.  
Pass Low Current 8.5A

Wafer Stage Short Stroke 1 Z2 amp.  
Pass Low Current 8.5A  
Wafer Stage Short Stroke 1 Z3 amp.  
Pass Low Current 8.5A  
Wafer Stage Short Stroke 2 Z1 amp.  
Pass Low Current 8.5A  
Wafer Stage Short Stroke 2 Z2 amp.  
Pass Low Current 8.5A  
Wafer Stage Short Stroke 2 Z3 amp.  
Pass Low Current 8.5A  
Reticle Stage Long Stroke Y11 amp.  
450V20A: PAAC AT-pepD  
Reticle Stage Long Stroke Y12 amp.  
450V20A: PAAC AT-pepD  
Reticle Stage Long Stroke Y21 amp.  
400V16A: PAAC AT-D  
Reticle Stage Long Stroke Y22 amp.  
400V16A: PAAC AT-D  
Reticle Balance Mass 1 amp.  
400V16A: PAAC AT-D  
Reticle Balance Mass 2 amp.  
400V16A: PAAC AT-D  
Wafer Stage Long Stroke E X amp.  
400V16A: PAAC AT-D  
Wafer Stage Long Stroke M X amp.  
450V20A: PAAC AT-pepD  
Wafer Stage Long Stroke E Y1 amp.  
400V16A: PAAC AT-D  
Wafer Stage Long Stroke E Y2 amp.  
400V16A: PAAC AT-D  
Wafer Stage Long Stroke E CS amp.  
400V16A: PAAC AT-D  
Wafer Stage Long Stroke M Y1 amp.  
450V20A: PAAC AT-pepD  
Wafer Stage Long Stroke M Y2 amp.  
400V16A: PAAC AT-D  
Wafer Stage Long Stroke M CS amp.  
400V16A: PAAC AT-D  
Wafer Stage Balance Mass 11 amp.  
325V14A: PAAC AT-C  
Wafer Stage Balance Mass 12 amp.  
325V14A: PAAC AT-C  
Wafer Stage Balance Mass 21 amp.  
325V14A: PAAC AT-C  
Wafer Stage Balance Mass 22 amp.  
325V14A: PAAC AT-C  
Pressure update rate for fringelength correction  
Pressure update rate 2 or 4 Hz  
TestStream  
TestStream disabled  
Performance Enhancement Package  
None  
PEP Image Streaming  
Absent

Lot Overhead Reduction  
LOR2

PDOC quality indicator check  
PDOC quality indicator functionality is absent

Combined stage alignment  
Disabled

Reduced capture range for TIS scans  
Disable reduced range TIS scan scenarios

Extended Zone Alignment  
Disabled

Intrafield Higher Order Process Corrections  
Disabled

SMASH Reuse Capture Information in Stage Alignment  
Coarse capture scans are done on all stage alignment marks.

Allow wafer plane deviation check with Focus Monitoring  
Disabled

Parameter indicates how long overlay data will be stored.  
Short retention period.

Level sensor Ry drift correction  
Enabled

Fading Control Switch  
Enabled

Improved wafer reject mode  
Disabled

Automated Lens Heating Calibration  
Disabled

Lens heating History in LH Feedforward  
Enabled

Allow different Exp,TIS Align set  
Absent

Imaging Fading Control  
Disabled

Gridmapper  
Enabled

2D grid correction  
Enabled

Double TIS scan  
Disabled

Symmetrical Reticle Alignment  
Disabled

Ast offset correction in TIS LHFB/LOCO (Version 3)  
Disabled

Choice of avoidance routing.  
Absent

NEXZ-tilt per exposure  
The NEXZ-tilt cannot be adjusted per exposure.

Off-axis slit  
Projection lens has no off-axis slit.

Improved Edge Field Leveling  
Enabled

Enhanced Throughput Reticle Alignment  
Present

Wavelength Adjustable  
Adjustable

Allow L1L7 Type 1 Optimization  
Absent

Lot Alignment Report Encryption  
Unencrypted

Stage Alignment Filter  
Present

Lot Correction Sequence  
Type B

Lens Heating Feedback  
Present

Application Specific Lens Heating Calibration and Verification  
Present

Improved Contrast Control  
Absent

ILIAS lens setup  
Absent

Air Gauge Improved Levelling  
Absent

Process Dependent Gain Correction  
Absent

Enhanced Exposure Overlay  
Full

ALE 1 Use  
Lens heating only

Overlay Node  
Level 0

E-chuck Flatness Qualification Test  
Enabled

TOP HD  
Absent

Reticle Align High Precision  
Absent

LS spot coverage  
Absent

Layout Version Number TIS Plate 1 on Chuck 1  
TIS Plate 1 Layout Version 2

Layout Version Number TIS Plate 1 on Chuck 2  
TIS Plate 1 Layout Version 2

Layout Version Number TIS Plate 2 on Chuck 1  
TIS Plate 2 Layout Version 3

Layout Version Number TIS Plate 2 on Chuck 2  
TIS Plate 2 Layout Version 3

Usage of wavelength data by TIS  
Disabled

Usage of Energy Sensor data by TIS  
Disabled

Indication what kind of AM controller hardware is present  
SUCR

Piezo Active Lens Mounts  
Absent

ILIAS Functionality For Lithoguide  
Present

ISIS Functionality For Lithoguide  
Absent

SAMOS Stray Light Test For Lithoguide  
Present

PUPIL Measurement For Lithoguide  
Present

FOCAL Measurement for Lithoguide  
Present

Leveling Verification Test for Lithoguide  
Present

Lithoguide Imaging Recipes  
Absent

Dose System Performance Test for Lithoguide  
Present

ILIAS Sensor Location  
Chuck 2

ILIAS sensor type chuck 2  
Multiple scan grid

ILIAS sensor type chuck 1  
None

Reticule Level Polarization Sensor  
Absent

Improve robustness DPCM mark  
Disable DPCM mark robustness improvement

SASO robustness and fiber connectivity  
Disable SASO robustness

Extended X width masking range  
Disabled

PDO offset for EFL LS spots  
Disabled.

Assure System Snapshots  
Assure System Snapshots not allowed

Insert a delay time before starting a Lot (lens heating).  
Enabled

Save throughput data to the disk  
Disabled

Patch strategy  
Patchlevel

Chuck Dedication  
Enhanced

Application Type  
Scanner Application

Number of RMCS clients  
No clients

MDL Viewer  
Site View

ZERO Fiducial  
ILIAS

Machine Architecture  
XT Machine Architecture

XT Architecture Revision  
Rev1

Machine Type  
1250

Machine Specification  
D Specification

Stand-alone Workstation

False

Machine Location

Customer Site

CP 1A

Absent

CP 1B

Absent

CP 2

Absent

CP 3

Absent

CP 4

Absent

CP 5

Absent

CP 6

Absent

Wafer Handler Productivity

Wafer Handler Productivity Level 0



Operator:ASML            Machine:7337            Release:4.1.0  
Date:30/11/2021        Time:19:41

Report Filename : EMZC.69  
Report Path : TM/MetrologyCalibration/InitXYplane/EMZC.log/  
Machine Type : 1250D

Test Info

Machine ID : 7337  
Machine type : 1250D  
Lens ID : 0123168a  
ELLE ID : 000000  
Testlog : ZSCA\_7337\_20211130\_1825\_manual.tlg  
Date and time of measurement : 11/30/2021 18:25  
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 : 1003.22 [mbar]

Lens Stability

Zernike delta over measurement time

	Delta	Spec.	In Spec.
	[nm]	[nm]	
Z5	-0.180	2.000	Yes
Z7	-0.159	2.000	Yes
Z9	0.249	2.000	Yes
Z14	-0.107	2.000	Yes
Z16	0.062	2.000	Yes

RMS values

	Current	After Correction				Deltas	
		NEXZ	+SA	NEXZ	SA	Both	
	[nm]	[nm]	[nm]	[nm]	[nm]	[nm]	
Spherical	1.39	1.38	1.38	0.01	-0.00	0.01	
Coma	0.78	0.52	0.53	0.26	-0.01	0.25	
Astigmatism	1.14	1.14	1.14	-0.00	-0.00	-0.00	
3-foil	0.64	0.63	0.62	0.01	0.01	0.02	
(Z5->Z37)	2.05	2.03	2.02	0.02	0.01	0.03	
(Z38->)	1.04	1.04	1.04	0.00	0.00	0.00	