

Transaction Information

ToolId	STP1332
ToolStatus	Running Wafers
Location	Dresden
WaferSize	300 mm
FabSection	Lithography

General Product Information

VendorSupplier	ASML
Model	XT 1250B
Vintage	2005
SerialNo	m4623
AssetDescription	ALC1332STP
SoftwareVersion	4.1.0
CIM	SECS, GEM
Process	ARF

Hardware Configuration (Fab)

SystemType	Description	Quantity	Status
Main System	Main Frame	1	OK
Factory Interface	FOUP	1	OK
Handler System	ASML Reticle Handler	1	OK
Handler System	ASML Wafer Handler	1	OK
Options System	OIU Unix	1	OK
Others			

Hardware Configuration (Subfab / Auxilliary Units)

Description	Quantity	Status
Cymer Laser XLA-165	1	OK
MAIN DISTRIBUTION CAB.	1	OK
ELECTROCABINET #2	1	OK
ELECTROCABINET #3	1	OK
EXHAUST CABINET	1	OK
LENS CIRCUIT WATER CAB.	1	OK
MOTOR CIRCUIT WATER CAB	1	OK
AIR CONTROL CAB.	1	OK
PURGE HOOD BLOWER	1	OK

Missing/Faulty Parts / Accesories List

Description	Quantity
-------------	----------

Description	Quantity
non	

Tool Pictures

missingparts	NONE
--------------	------

No Picture

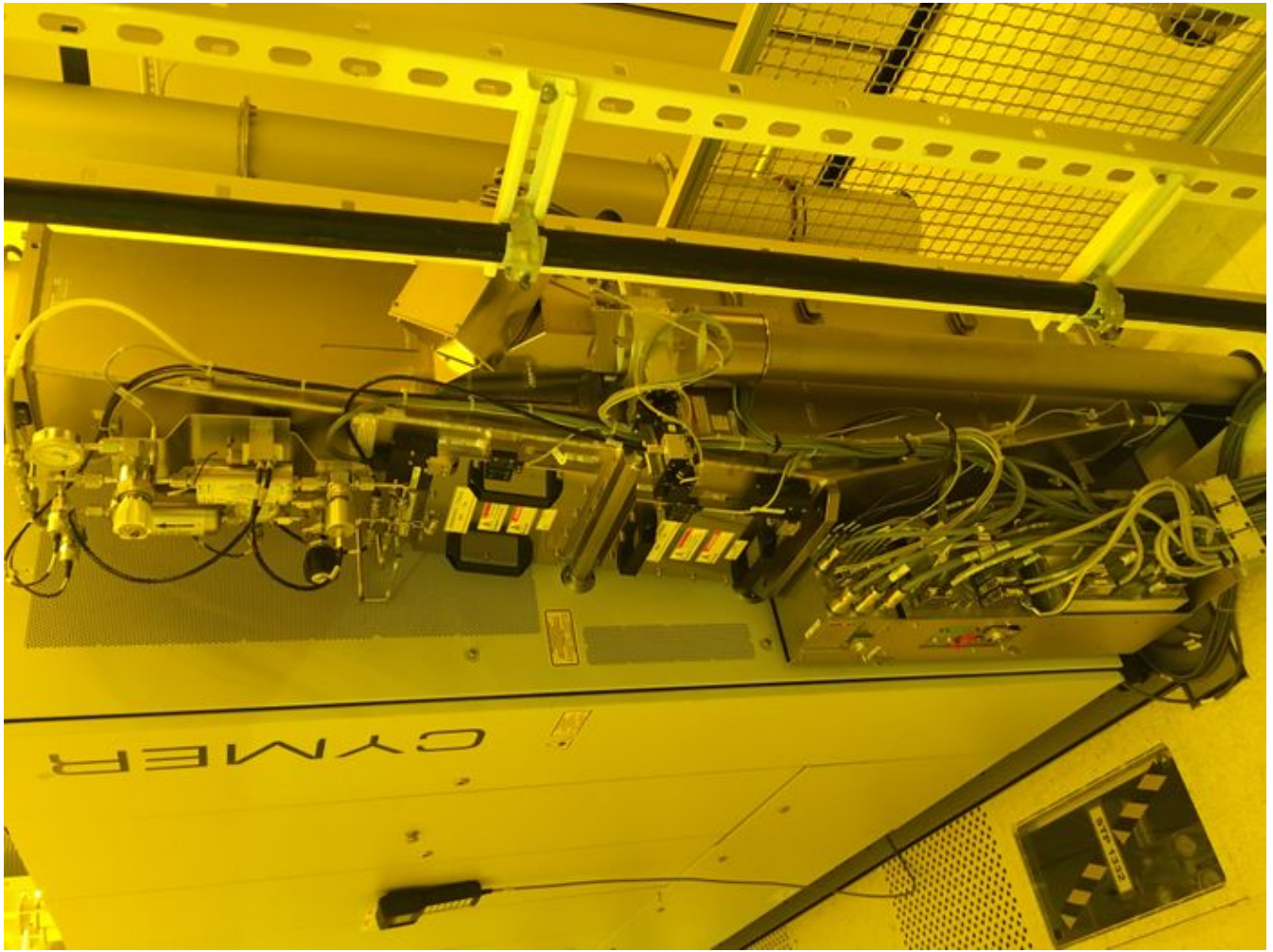
general	Mainframe
---------	-----------



general

Mainframe





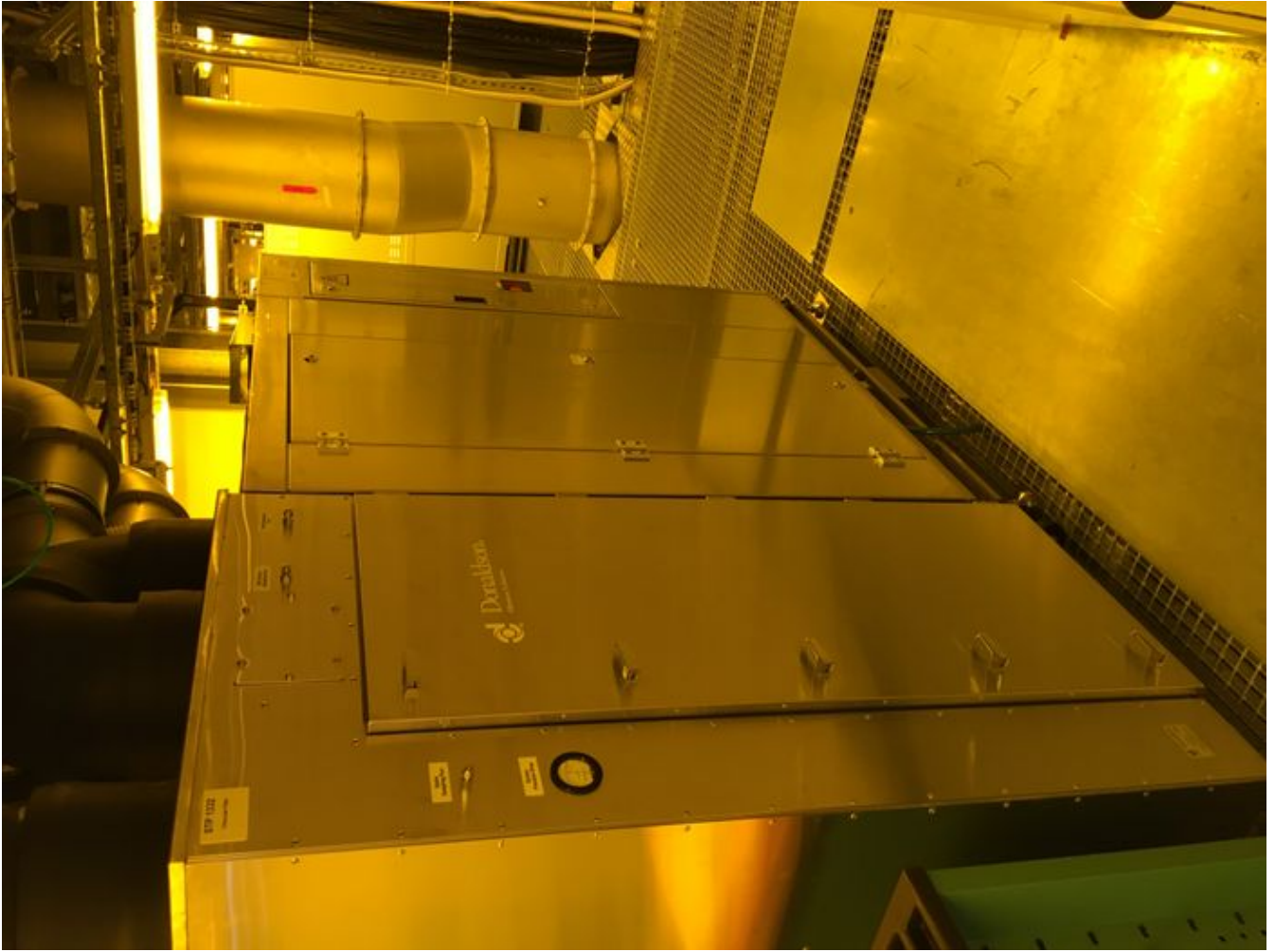






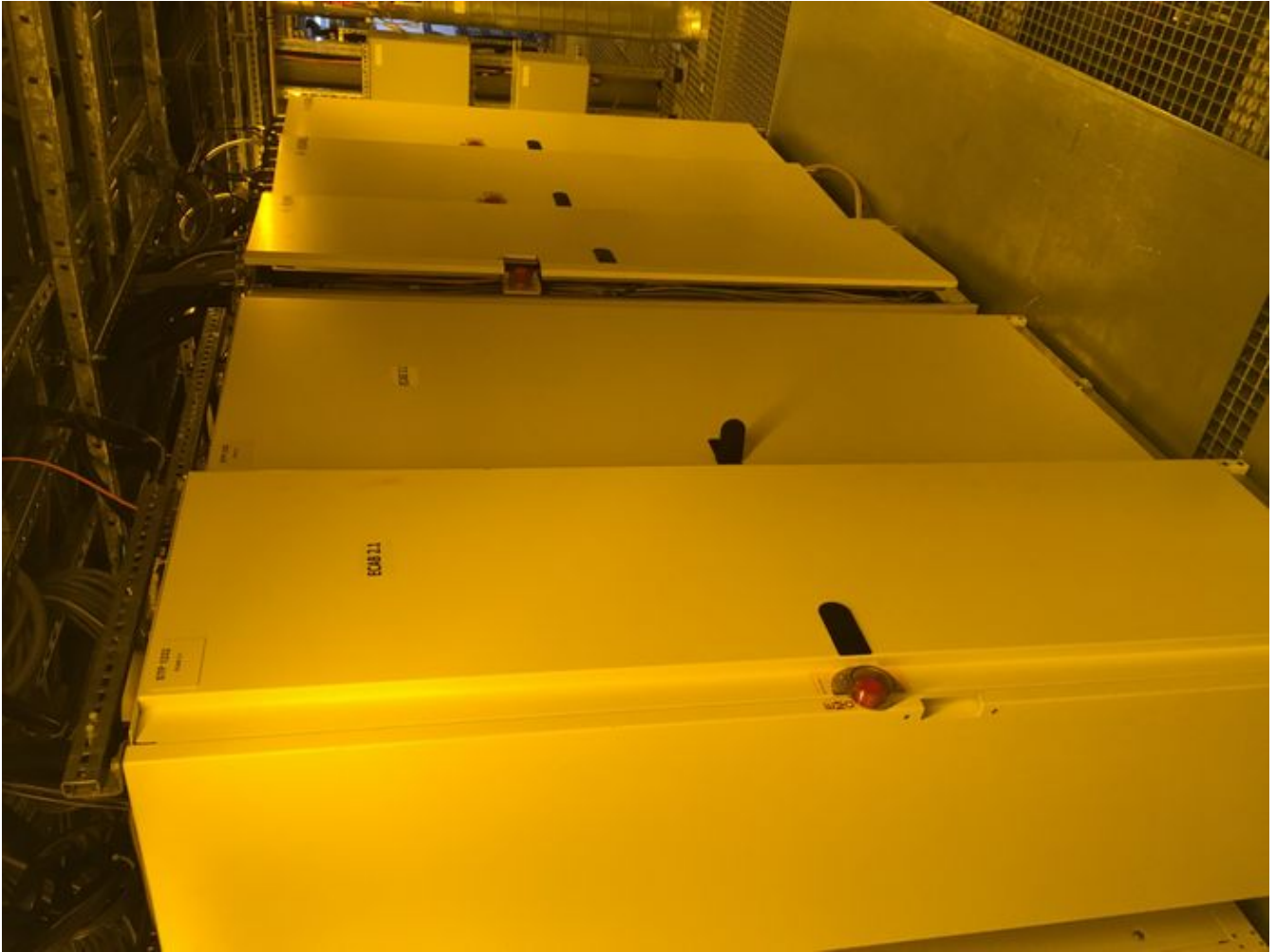
hardwaresubfab

SubFab Config



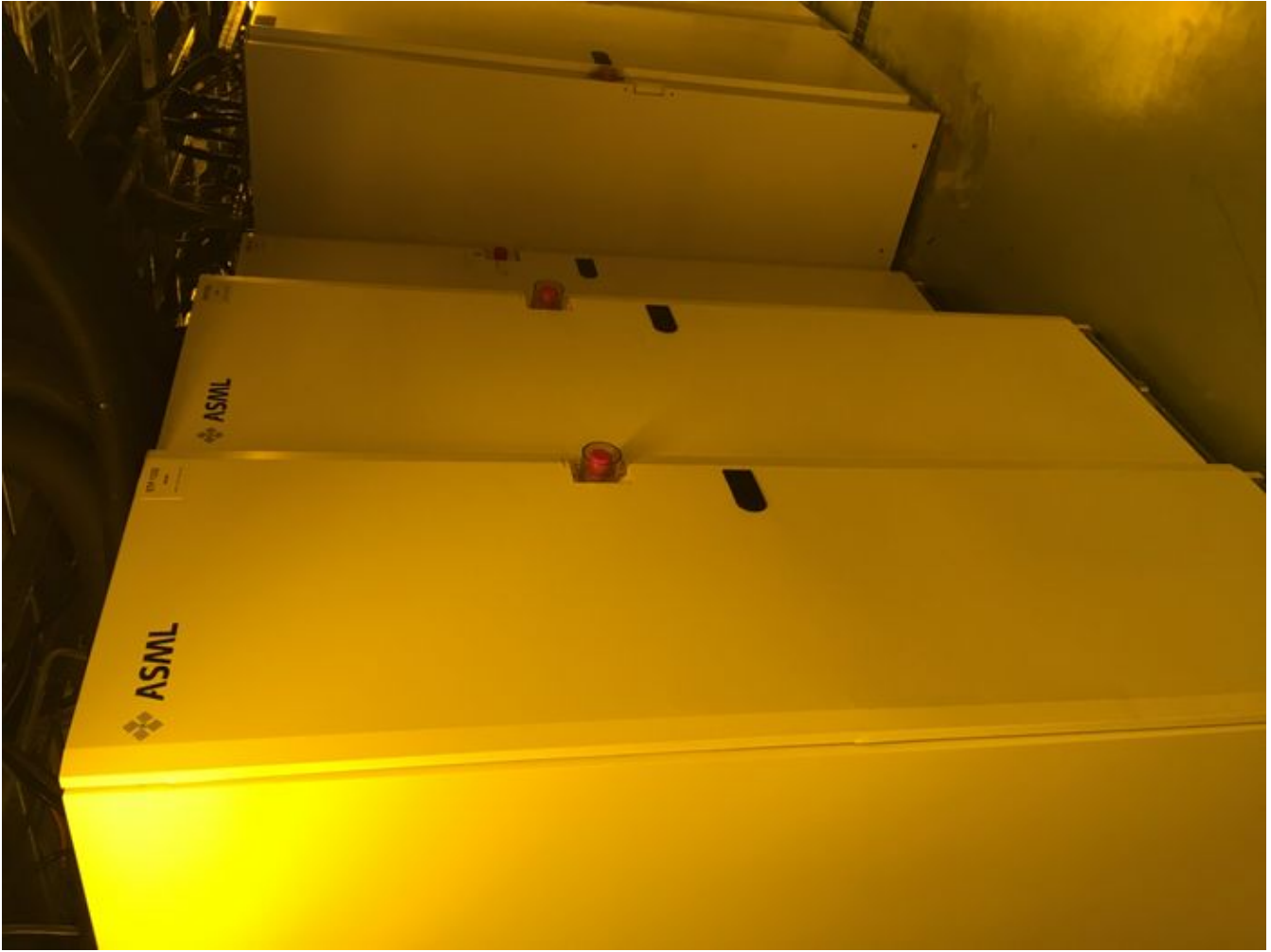
hardwaresubfab

SubFab Config



hardwaresubfab

SubFab Config



manufactureserial

Tool SN



Additional Configuration Files

Configuration read from : Equipment
Configuration date : 2019-11-11

Machine number : 4623
System type : XTRSVL1250FFP D
System architecture : XT Machine Architecture Rev1
Light-source type : Cymer Laser: XLA 165
Wavelength : 193nm

Installed Patches

AT_4.1.0.c.0001c	AT_4.1.0.c.0065c	AT_4.1.0.c.0129c	AT_4.1.0.c.0193c
AT_4.1.0.c.0002c	AT_4.1.0.c.0066c	AT_4.1.0.c.0130c	AT_4.1.0.c.0194c
AT_4.1.0.c.0003c	AT_4.1.0.c.0067c	AT_4.1.0.c.0131c	AT_4.1.0.c.0195c
AT_4.1.0.c.0004c	AT_4.1.0.c.0068c	AT_4.1.0.c.0132c	AT_4.1.0.c.0196c
AT_4.1.0.c.0005c	AT_4.1.0.c.0069c	AT_4.1.0.c.0133c	AT_4.1.0.c.0197c
AT_4.1.0.c.0006c	AT_4.1.0.c.0070c	AT_4.1.0.c.0134c	AT_4.1.0.c.0198c
AT_4.1.0.c.0007c	AT_4.1.0.c.0071c	AT_4.1.0.c.0135c	AT_4.1.0.c.0199c
AT_4.1.0.c.0008c	AT_4.1.0.c.0072c	AT_4.1.0.c.0136c	AT_4.1.0.c.0200c
AT_4.1.0.c.0009c	AT_4.1.0.c.0073c	AT_4.1.0.c.0137c	AT_4.1.0.c.0201c
AT_4.1.0.c.0010c	AT_4.1.0.c.0074c	AT_4.1.0.c.0138c	AT_4.1.0.c.0202c
AT_4.1.0.c.0011c	AT_4.1.0.c.0075c	AT_4.1.0.c.0139c	AT_4.1.0.c.0203c
AT_4.1.0.c.0012c	AT_4.1.0.c.0076c	AT_4.1.0.c.0140c	AT_4.1.0.c.0204c
AT_4.1.0.c.0013c	AT_4.1.0.c.0077c	AT_4.1.0.c.0141c	AT_4.1.0.c.0205c
AT_4.1.0.c.0014c	AT_4.1.0.c.0078c	AT_4.1.0.c.0142c	AT_4.1.0.c.0206c
AT_4.1.0.c.0015c	AT_4.1.0.c.0079c	AT_4.1.0.c.0143c	AT_4.1.0.c.0207c
AT_4.1.0.c.0016c	AT_4.1.0.c.0080c	AT_4.1.0.c.0144c	AT_4.1.0.c.0208c
AT_4.1.0.c.0017c	AT_4.1.0.c.0081c	AT_4.1.0.c.0145c	AT_4.1.0.c.0209c
AT_4.1.0.c.0018c	AT_4.1.0.c.0082c	AT_4.1.0.c.0146c	AT_4.1.0.c.0210c
AT_4.1.0.c.0019c	AT_4.1.0.c.0083c	AT_4.1.0.c.0147c	AT_4.1.0.c.0211c
AT_4.1.0.c.0020c	AT_4.1.0.c.0084c	AT_4.1.0.c.0148c	AT_4.1.0.c.0212c
AT_4.1.0.c.0021c	AT_4.1.0.c.0085c	AT_4.1.0.c.0149c	AT_4.1.0.c.0213c
AT_4.1.0.c.0022c	AT_4.1.0.c.0086c	AT_4.1.0.c.0150c	AT_4.1.0.c.0214c
AT_4.1.0.c.0023c	AT_4.1.0.c.0087c	AT_4.1.0.c.0151c	AT_4.1.0.c.0215c
AT_4.1.0.c.0024c	AT_4.1.0.c.0088c	AT_4.1.0.c.0152c	AT_4.1.0.c.0216c
AT_4.1.0.c.0025c	AT_4.1.0.c.0089c	AT_4.1.0.c.0153c	AT_4.1.0.c.0217c
AT_4.1.0.c.0026c	AT_4.1.0.c.0090c	AT_4.1.0.c.0154c	AT_4.1.0.c.0218c
AT_4.1.0.c.0027c	AT_4.1.0.c.0091c	AT_4.1.0.c.0155c	AT_4.1.0.c.0219c
AT_4.1.0.c.0028c	AT_4.1.0.c.0092c	AT_4.1.0.c.0156c	AT_4.1.0.c.0220c
AT_4.1.0.c.0029c	AT_4.1.0.c.0093c	AT_4.1.0.c.0157c	AT_4.1.0.c.0221c
AT_4.1.0.c.0030c	AT_4.1.0.c.0094c	AT_4.1.0.c.0158c	AT_4.1.0.c.0222c
AT_4.1.0.c.0031c	AT_4.1.0.c.0095c	AT_4.1.0.c.0159c	AT_4.1.0.c.0223c
AT_4.1.0.c.0032c	AT_4.1.0.c.0096c	AT_4.1.0.c.0160c	AT_4.1.0.c.0224c
AT_4.1.0.c.0033c	AT_4.1.0.c.0097c	AT_4.1.0.c.0161c	AT_4.1.0.c.0225c
AT_4.1.0.c.0034c	AT_4.1.0.c.0098c	AT_4.1.0.c.0162c	AT_4.1.0.c.0226c
AT_4.1.0.c.0035c	AT_4.1.0.c.0099c	AT_4.1.0.c.0163c	AT_4.1.0.c.0227c
AT_4.1.0.c.0036c	AT_4.1.0.c.0100c	AT_4.1.0.c.0164c	AT_4.1.0.c.0228c
AT_4.1.0.c.0037c	AT_4.1.0.c.0101c	AT_4.1.0.c.0165c	AT_4.1.0.c.0229c
AT_4.1.0.c.0038c	AT_4.1.0.c.0102c	AT_4.1.0.c.0166c	AT_4.1.0.c.0230c
AT_4.1.0.c.0039c	AT_4.1.0.c.0103c	AT_4.1.0.c.0167c	AT_4.1.0.c.0231c
AT_4.1.0.c.0040c	AT_4.1.0.c.0104c	AT_4.1.0.c.0168c	AT_4.1.0.c.0232c
AT_4.1.0.c.0041c	AT_4.1.0.c.0105c	AT_4.1.0.c.0169c	AT_4.1.0.c.0233c
AT_4.1.0.c.0042c	AT_4.1.0.c.0106c	AT_4.1.0.c.0170c	AT_4.1.0.c.0234c
AT_4.1.0.c.0043c	AT_4.1.0.c.0107c	AT_4.1.0.c.0171c	AT_4.1.0.c.0235c
AT_4.1.0.c.0044c	AT_4.1.0.c.0108c	AT_4.1.0.c.0172c	AT_4.1.0.c.0236c
AT_4.1.0.c.0045c	AT_4.1.0.c.0109c	AT_4.1.0.c.0173c	AT_4.1.0.c.0237c
AT_4.1.0.c.0046c	AT_4.1.0.c.0110c	AT_4.1.0.c.0174c	AT_4.1.0.c.0238c
AT_4.1.0.c.0047c	AT_4.1.0.c.0111c	AT_4.1.0.c.0175c	AT_4.1.0.c.0239c
AT_4.1.0.c.0048c	AT_4.1.0.c.0112c	AT_4.1.0.c.0176c	AT_4.1.0.c.0240c
AT_4.1.0.c.0049c	AT_4.1.0.c.0113c	AT_4.1.0.c.0177c	AT_4.1.0.c.0241c
AT_4.1.0.c.0050c	AT_4.1.0.c.0114c	AT_4.1.0.c.0178c	AT_4.1.0.c.0242c
AT_4.1.0.c.0051c	AT_4.1.0.c.0115c	AT_4.1.0.c.0179c	AT_4.1.0.c.0243c
AT_4.1.0.c.0052c	AT_4.1.0.c.0116c	AT_4.1.0.c.0180c	AT_4.1.0.c.0244c
AT_4.1.0.c.0053c	AT_4.1.0.c.0117c	AT_4.1.0.c.0181c	AT_4.1.0.c.0245c
AT_4.1.0.c.0054c	AT_4.1.0.c.0118c	AT_4.1.0.c.0182c	AT_4.1.0.c.0246c
AT_4.1.0.c.0055c	AT_4.1.0.c.0119c	AT_4.1.0.c.0183c	AT_4.1.0.c.0247c
AT_4.1.0.c.0056c	AT_4.1.0.c.0120c	AT_4.1.0.c.0184c	AT_4.1.0.c.0248c
AT_4.1.0.c.0057c	AT_4.1.0.c.0121c	AT_4.1.0.c.0185c	AT_4.1.0.c.0249c
AT_4.1.0.c.0058c	AT_4.1.0.c.0122c	AT_4.1.0.c.0186c	AT_4.1.0.c.0250c
AT_4.1.0.c.0059c	AT_4.1.0.c.0123c	AT_4.1.0.c.0187c	AT_4.1.0.c.0251c
AT_4.1.0.c.0060c	AT_4.1.0.c.0124c	AT_4.1.0.c.0188c	AT_4.1.0.c.0252c
AT_4.1.0.c.0061c	AT_4.1.0.c.0125c	AT_4.1.0.c.0189c	AT_4.1.0.c.0253c
AT_4.1.0.c.0062c	AT_4.1.0.c.0126c	AT_4.1.0.c.0190c	AT_4.1.0.c.0254c
AT_4.1.0.c.0063c	AT_4.1.0.c.0127c	AT_4.1.0.c.0191c	AT_4.1.0.c.0255c
AT_4.1.0.c.0064c	AT_4.1.0.c.0128c	AT_4.1.0.c.0192c	AT_4.1.0.c.0256c
AT_4.1.0.c.0065c			AT_4.1.0.c.0257c
			AT_4.1.0.c.0258c
			AT_4.1.0.c.0259c
			AT_4.1.0.c.0260c
			AT_4.1.0.c.0261c
			AT_4.1.0.c.0262c
			AT_4.1.0.c.0263c

Patch Switches

SWITCH_034 : ENABLED	AT_4.1.0.c_0087c	Level sensor Ry drift correction
SWITCH_031 : DISABLED	AT_4.1.1.c_0038c	Fading Control Switch
SWITCH_031 : DISABLED	release	Fading Control Switch
SWITCH_030 : ENABLED	release	Lens heating History in LH Feedforward
SWITCH_038 : DISABLED	AT_4.1.0.c_0232c	Improve robustness DPCM mark
SWITCH_035 : DISABLED	AT_4.1.0.c_0203c	SASO robustness and fiber connectivity
SWITCH_036 : DISABLED	AT_4.1.0.c_0201c	Extended X width masking range
SWITCH_037 : ENABLED	AT_4.1.0.c_0206c	PDO offset for EFL LS spots

System Variability Parameters
No system variability parameters defined

Configuration Items

Track Pre-warnings signal (APR)	: APR enabled
Avoid Track INPUT/OUTPUT conflicts, Raise AS after APR	: Avoid Track INPUT/OUTPUT conflicts enabled
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 waferable on chuck 2 for immersion machine	: Serodur version 1
Type of waferable on chuck 1 for immersion machine	: Serodur version 1
WS Immersion throughput package	: None
WS Immersion thermal control package	: None
extended docking interface at Prealigner	: SCC_OEM
Wafer Stage Configuration	: Wafer Stage type 2 configuration
Wafer Carrier Location	: Left
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
WR Robot Power Amplifier	: GPM 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 WR unload	: Present
Docking plate Height	: Low
Immersion Hood version	: Absent
Carrier Handler Type	: Mark III 300

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
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.	: Present
Zeroing type for Encoders Measurement System	: Using extra hall sensors for zeroing
Reticle Stage Chuck Type	: Glued Leafspring
Reticle Stage Chuck Type	: TFFP_2: Glued LS, Pneum. GC, IFM / ENC
Nitrogen purging of Reticle Stage	: NS as not purged
Reticle Carrier Location	: Left
Integrated Reticle Inspection System	: PF22 with IRISsum functionality.
Integrated Reticle Library	: IRU with original functionality
Reticle Size	: 6 inch
Reticle Carrier Tag Reader	: Present
Reticle Stage Long Stroke Motor Type	: Cobalt Ferrro 18 teeth
Reticle Stage Long Stroke Config	: TYPE_3:CoFe_18 motor, SB controlled, int. vacuum supply, pneum GC
Automated Reticle Transport System	: Absent
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 zs on the X axis	: Same
RS Object Field	: Normal
Reticle exchange type	: Retex option: E
IRIS feature Scan	: Present
Reticle Handler type	: Original
2D Barcode Reader	: Absent
Integrated Reticle Inspection System Configuration.	: Enable creation of OSIRIS viewable files for PF22 systems.
Reticle 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	: Ifar
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
FSE Location	: not applicable
PCE Location	: not applicable
Intensity Calibration Per DOE	: Disabled
Pupil qualification method	: Centre of gravity method
Polarized illumination smoroh DOE.	: Only unpolariized illumination.
Fresnel corrections for WSS	: 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
TFFPC FDE model lens dependent	: Disabled
EMSE Type	: Don't Care
TIS diffuser	: TIS diffuser absent
Determination of NA ellipticity	: Disabled
XMI output for LITHOGRAPHY	: 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 optimizing pupil symmetry parameters (LUPO)
Pupil TIS angular sensitivity calibration and correction	: TIS Pupil Measurement will not be improved
Describe at what plane the RMU measures	: RMU 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	: 22A
Zoom Axicon Type	: 120
NA Control Architecture	: NA2 Torlon
NA Control Type	: 120
Automated DOE Exchanger	: Present
Automated DOE Exchanger Architecture	: 16 slots
UNICOM	: Present
UNICOM Architecture	: A 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	: IPR
Type of projection multiplexer board	: MUX Absent
LEC Rack in Electronic Architecture	: Present
Projection OPA Configuration Version	: Version 2
Number of Lens MEXE 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 MMYXS	: 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 Rem	: 5
Number of Rym	: 5
Diaphragm Limiter	: Absent
NAI 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 EPLE axes	: 0
UV Shutter version	: UV Shutter version 1
Dosecontrol Hardware	: USB
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
Reticle shape correction	: Enabled
LS focus node	: LS focus node 3
Level Sensor Processing Rack	: LCSR
LS PEMD CONFIG	: Present
LS CPU CONFIG	: 3 CPU's available
Baseline overlay high order intrafield	: Baseline-Overlay high order intrafield is enabled.
Baseline focus high order intrafield	: Baseline-Focus high order intrafield is disabled.
Baseline focus control	: Baseline-Focus application is enabled

BaseLine overlay control.	: BaseLine-Overlay application is enabled.
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	: Absent
Lot Report Data Category	: Enhanced Diagnostics
CDC	: Enabled
EFEBE	: Absent
FED control mode	: Absent
Proximity Matching	: Present
mbs control	: Present
Enhanced exposures 1	: Present
Data collection not covered by FOCUS and OVERLAY	: InformPro Data Collection disabled.
Overlay Data Collection	: Overlay Data Collection disabled.
XML Lot Report Content Level	: Basic
Enable the Maintenance Assistant	: Disable Maintenance Assistant
EDA Interface	: Disabled
Equipment Constants via SECS interface	: Enabled
LCI WaitWatcher plugin	: Absent
Recorder Lot Service	: Present
Shot Data Collection	: Absent
Focus Data Collection	: Absent
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 X mark types.	: SMASH XY marks are not supported.
Specifies which mark types are supported	: ASM marks only
Alignment Laser configuration	: 2 color laser
OADS Improved Dynamic Range	: Disabled
board configuration	: OCB + ADB
Alignment Camera Mirror	: Absent
Athena Narrow Marks TwinScan	: Present
Alignment Sensor Type	: Athena Narrow Marks OM
Athena Focus Improvements 1	: Present
Max alignment speed	: Setting 2
AA processing rack	: AACR processing rack
Particle Extraction Mass Flow Meter	: Absent
purging configuration	: purging CONFIG 3
Bubble Extractions Seal Setting	: Not Applicable
Ultra Pure Water flow controller (WICO)	: Absent
LCW Circuit set-up	: Flow Version 1
In situ Wafer Table Stone Cleaning	: Absent
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 1
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 Humidified Air	: Absent
Lens Circuit Water Flow	: High
Motor Circuit Water Flow	: Normal
SPM temp correction for lens axis	: Disabled
2 Sided IPM-beams for MS-X (expose)	: Not available
2 Sided IPM-beams for MS-X (measure)	: Not available
Diff pressure correction for IPM beams	: Absent
IPM Laser Configuration	: ACM 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 Y1 amp.	: PADC 100V/16A
Reticle Stage Short Stroke Y2 amp.	: PADC 100V/16A
Reticle Stage Short Stroke Y22 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 21 amp.	: PADC 100V/16A
Reticle Stage Short Stroke 22 amp.	: PADC 100V/16A
Reticle Stage Short Stroke 23 amp.	: PADC 100V/16A
Wafer Stage Short Stroke 1 Z1 amp.	: PADC 100V/16A
Wafer Stage Short Stroke 1 Z2 amp.	: PADC 100V/16A
Wafer Stage Short Stroke 1 Z3 amp.	: PADC 100V/16A
Wafer Stage Short Stroke 2 Z1 amp.	: PADC 100V/16A
Wafer Stage Short Stroke 2 Z2 amp.	: PADC 100V/16A
Wafer Stage Short Stroke 2 Z3 amp.	: PADC 100V/16A
Reticle Stage Long Stroke Y11 amp.	: PADC 100V/16A
Reticle Stage Long Stroke Y12 amp.	: PADC 100V/16A
Reticle Stage Long Stroke Y21 amp.	: PADC 100V/16A
Reticle Stage Long Stroke Y22 amp.	: PADC 100V/16A
Reticle Balance Mass 1 amp.	: 450V20A: PAAC AT-pepD
Reticle Balance Mass 2 amp.	: 450V20A: PAAC AT-pepD
Wafer Stage Long Stroke E X amp.	: 450V20A: PAAC AT-pepD
Wafer Stage Long Stroke M X amp.	: 450V20A: PAAC AT-pepD
Wafer Stage Long Stroke E Y1 amp.	: 450V20A: PAAC AT-pepD
Wafer Stage Long Stroke E Y2 amp.	: 450V20A: PAAC AT-pepD
Wafer Stage Long Stroke E C3 amp.	: 450V20A: PAAC AT-pepD
Wafer Stage Long Stroke M Y1 amp.	: 450V20A: PAAC AT-pepD
Wafer Stage Long Stroke M Y2 amp.	: 450V20A: PAAC AT-pepD
Wafer Stage Long Stroke M C3 amp.	: 450V20A: PAAC AT-pepD
Wafer Stage Balance Mass 11 amp.	: 300V14A: PAAC AT-B ACPA Twin
Wafer Stage Balance Mass 12 amp.	: 300V14A: PAAC AT-B ACPA Twin
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	: Present
Lot Overhead Reduction	: LOR2
FDOC quality indicator check	: FDOC 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.
Improved wafer reject mode	: Disabled
Automated Lens Heating Calibration	: Disabled
Allow different Exp,TIS Align set	: Absent
Imaging Fading Control	: Disabled
Gridmapper	: Disabled
2D grid correction	: Disabled
Double TIS scan	: Disabled
Symmetrical Reticle Alignment	: Disabled
Ast offset correction in TIS LRFH/LOCO (Version 3)	: Disabled
Choice of avoidance routing.	: Absent
NEX2-tilt per exposure	: The NEX2-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	: Encrypted
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
TILAS lens setup	: Absent
Air Gauge Improved Levelling	: Absent
Process Dependent Gain Correction	: Absent
Enhanced Exposure Overlay	: Absent
ALE 1 Use	: Lens heating only
Overlay Node	: Level 0
E-chuck Flatness Qualification Test	: Disabled
TOP HD	: Absent
Reticle Align High Precision	: Absent
IS 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
TYPE 3 Configuration for Lithography	: Present

```
ISIS 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
ILLIAS Sensor Location                  : Chuck 2
ILLIAS sensor type chuck 2              : Multiple scan grid
ILLIAS sensor type chuck 1              : None
Reticle Level Polarization Sensor        : Absent
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                          : Basic
Application Type                           : Scanner Application
Number of RMCS clients                     : No clients
MDL Viewer                                 : Site View
ZERO Fiducial                              : ILLIAS
Machine Architecture                       : XT Machine Architecture
XT Architecture Revision                   : Rev1
Machine Type                               : 1250
Machine Specification                      : pep-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: Machine:4623 Release:4.1.0 Date:11/11/2019 Time:09:58

Report Filename : EMCA.66
Report Path : TM/Projection/StrayLightMonitoring/EMCA.log/
Machine Type : 1250B

Testname : Straylight At Multiple Opaque Squares
Start Time : Mon, 11 Nov 2019 09:56:07 122383us +0000
Stop Time : Mon, 11 Nov 2019 09:58:52 843999us +0000
Execution Time : 00:02:45
Test Run Result : Finished
Test Status : Test is Finished
Comment : w/o unicom

Step	Start Time	Stop Time	Status
Prepare machine	09:56:07	09:57:41	Finished
Perform TIS measurements	09:57:41	09:58:27	Finished
Perform Spot sensor measurements	09:58:27	09:58:34	Finished
Create testlog	09:58:34	09:58:46	Finished
Unload reticle	09:58:46	09:58:52	Finished
Calculate stray light	09:58:52	09:58:52	Finished

Execution Time
00:01:34
00:00:46
00:00:06
00:00:12
00:00:05
00:00:00

Main Results

Test Log Name : 4623
Machine Number : 4623
Machine Type : 1250B
Lens Number : 0125421a
ELLE ID :
Measurement Time : 11/11/2019 09:58
Comment :
Pupil Shape
Illumination mode : Annular
NA : 0.850
DOE ID : 15
Sigma
inner : 0.690
outer : 0.930
Reticle ID : 45563154P017
Number of Cycles : 1
Attenuator Factor : 0.200
Chuck ID : CHUCK_ID_1
TIS Plate ID : PLATE_1
PGA gain : PGA_GAIN_20DB
Number of Samples : 100
Defocus : 0.000 [um]
Rema Usage TIS : Homed
Number of Laser Pulses : 50
Laser Frequency : 4000 [Hz]
Energy : 11.25 [mJ]
Rema Usage Spot Sensor : Homed
Dark Current : 627 [bits]
Reference Blocksize : 33 [um]
Straylight at ref. blocksize : 0.80 [%]
Max. Straylight position
X : -7.05 [mm]
Y : 6.60 [mm]

Operator: Release:4.1.0 Machine:4020 Date:11/11/2019
Time:12:11

Report Filename : LUSU_99
Report Path : TH\Illumination/Performance/LUSU.log/
Machine Type : 12580
File name of logfile(s) : service_data/LU/LUSU/LUSU_4503.log
Testname : Slit Uniformity
Start Time : Mon, 11 Nov 2019 12:09:14 A89192us +0000
Stop Time : Mon, 11 Nov 2019 12:11:31 054057us +0000
Execution Time : 00:02:16
Test Run Result : Finished
Test Status : Test is Finished
Results Validation : N.A.
Measurement Quality : N.A.
Comment : 08802, UIP-off

Step	Start Time	Stop Time	Status	Execution Time
Initialize Drivers	12:09:14	12:09:14	Finished	00:00:00
Prepare Machine	12:09:14	12:09:25	Finished	00:00:10
Perform Measurement	12:09:25	12:11:31	Finished	00:02:06
Generate Results	12:11:27	12:11:31	Finished	00:00:03

Scenario Inputs

Selected Scenario : Manual Slit Uniformity
Verification Set : No Verification
Override Inputs : Yes
Manual Scenario Selected : Yes

Measurement mode : Stepping
Slit Uniformity X Size : 26.000 [mm]
Slit Uniformity Y Size : 10.200 [mm]
Field Uniformity X Size : 26.000 [mm]
Field Uniformity Y Size : 7.302 [mm]
Field Shift X : 0.000 [mm]
Field Shift Y : 0.000 [mm]
Steps in X Direction : 11
Steps in Y Direction : 51
Number of pulses : 100
Number of pre-expose pulses : 0
Attenuator transmission laser : 1.00
Pulse frequency : 4000
Use the nominal pulse frequency as pulse frequency : Yes
Pupil shape : Annular
Illumination mode : Annular
IR : 0.850
DOE ID : 15
Signa :
Inner : 0.250
outer : 0.700
Polarization mode : Unpolarized
Spot sensor : Non-Leading
REMO window :
REMO window X centre : 0.00000 [m]
REMO window Y centre : 0.00000 [m]
REMO window X size : 0.00000 [m]
REMO window Y size : 0.00000 [m]
REMO set_ps : Spot
Rema use : No
disable_OBS : No
Unicon :
Mode : Automatic
Position : 34.277 [mm]
Pupicon :
Mode : Automatic
Angle : 10.5 [deg]
Beam :
Beam Mode : Automatic
Beam Positioning :
Position X : -2.474 [mm]
Position Y : 1.795 [mm]
Pointing X : 0.384 [mRad]
Pointing Y : 0.722 [mRad]
Beam Window :
Beam position control window : 300 [um]
Beam pointing control window : 50 [mRad]
UIP on : No

Main Results
Slit Uniformity : 3.46 [%]
Tilt X : 0.28 [%]
Symmetrical Error : 3.27 [%]
UNICOM correctable : 2.95 [%]
Selected Chuck : Spot sensor

US Chuck 2

Corrected Slit Uniformities
Slit Uniformity if corrected for Tilt X : 3.43 [%]
Slit Uniformity if corrected for Symmetrical Error : 0.18 [%]
Slit Uniformity if corrected for Tilt X and Symmetrical Error : 0.08 [%]
Slit Uniformity if corrected for UNICOM : 0.51 [%]
Slit Uniformity if corrected for UNICOM and Tilt X : 0.29 [%]

Light Source Properties
Number of Laser Pulses emitted since installation [*10⁶] : 29118
Illumination Properties
DOE data file name : annular
DOE data file version : 2.0.1
Beam Position and Pointing
Beam position X [mm] : -2.15
Beam position Y [mm] : 1.44
Beam pointing X [mrad] : 0.390
Beam pointing Y [mrad] : 0.723
Beam data valid : Yes
Beam drift during measurement :
Beam position X [mm] : -0.25
Beam position Y [mm] : 0.48
Beam pointing X [mrad] : 0.003
Beam pointing Y [mrad] : -0.015
Beam drift during measurement valid : Yes

Field Uniformity Results
Field Uniformity : 4.35 [%]
Tilt Y : -0.40 [%]
Field Value Statistics
Average Spot Sensor Light Intensity [mW/cm2] : 2219.66
Standard Deviation of the Spot Sensor Light Intensity [mW/cm2] : 55.85
Average Energy Sensor Light Intensity [mW/cm2] : 2017.53
Standard Deviation of the Energy Sensor Light Intensity [mW/cm2] : 6.84
Average Point Ratio : 1.0416
Standard Deviation of the Point Ratio : 0.0277
Corrected Intensities
Average Spot Sensor Light Intensity Corrected to 1 external BP : 2427.20 [mW/cm2]
Intensity constants
RTP Intensity Specification [mW/cm2] : 2000
Number of Bending Points : 3
Grepfilter Coefficients : Calculated
Comment :
a0 :
-0.0000e+00 :
a2 :
-7.06051e-02 [1/mm2] :
a4 :
5.16812e-04 [1/mm4] :
a6 :
-5.08379e-06 [1/mm6] :
a8 :
1.71242e-08 [1/mm8] :

Slit Profile

X [mm]	Average Ratio [%]	Ratio per run (0..4) [%]	(5..20) [%]
0	-12.94	91.259	
1	-10.35	89.732	
2	-7.76	87.400	
3	-5.18	86.100	
4	-2.59	85.548	
5	0.00	85.369	
6	2.59	85.641	
7	5.18	86.377	
8	7.76	87.885	
9	10.35	89.972	
10	12.94	91.496	