

Transaction Information

Tool ID	LKSC763(LKLN763)
Tool Status	Connected
Location	Woodlands, Singapore
Wafer Size	300 mm
Fab Section	Lithography
Tool Available Date	2022-02-23

General Product Information

Vendor Supplier	Nikon
Model	NSR-S208D
Vintage	2010
Serial No	8732008
Asset Description	Nikon Main Body
Software Version	MCSW ver.180-P12/OCSW ver.180-P10
CIM	SECs
Process	kRF

Hardware Configuration (Fab)

System Type	Description	Quantity	Status
Main System	Main Body	1	OK
Handler System	External FOUP System	1	OK
Factory Interface	SMIF	1	OK
Options System			
Others			

Hardware Configuration (Subfab / Auxilliary Units)

Description	Quantity	Status
Amp Rack	1	OK
		OK
Temperature Controller	1	OK
		OK
Cymer Laser	1	OK
Air Conditioner	1	OK
		OK
		OK

Missing/Faulty Parts / Accesories List

Description	Quantity
NONE	

Tool Pictures

General

Main Body



General

Main Body

The screenshot displays the Nikon NSR-S208D software interface. At the top left, the equipment name "NSR-S208D" and "Equip. ID: LKSC763" are shown. The software version is "MCSW.ver.180-P12" and "DCSW.ver.180-P10". The interface includes a "Nikon" logo, "FIELD SERVICE" text, and "Login/Logout" buttons. A status bar at the top right shows "IDLE" and the date "2022/02/21 12:00:55". A log window on the right lists reticle events: "11:59:34 Reticle: Turn station to RL robot", "11:59:42 Reticle: RL robot to Prealignment position", "12:00:17 Reticle: ID verification -Start", "12:00:18 Reticle: ID verification -End", "12:00:24 Reticle: Prealignment position to RL robot", and "12:00:40 Reticle: particle check -Start".

The main area features a "Queue Lock" button (set to "Locked") and navigation buttons: "Edit", "Show", "Order", and "Delete". A "TagList file Version Check Form" dialog box is open, titled "TagList File Version Check". It contains a table with the following data:

Con.	File Create Ver.	NSR Version	judge
mcsw	170-p04	180-p12	lower
ocsw	170-p01	180-p10	lower
body	body_x601-000	body_x601-110	lower
bsac	bsac-ex602-08	bsac-ex602-09	lower
chmb	chmb_x601-07	chmb_x601-08	lower
go	go_x601-070	go_x601-100	lower
lms	lms-ex601-071	lms-ex601-100	lower
lens	lens_x601-070	lens_x601-100	lower
rlr	rlr_x601-0709	rlr_x601-1008	lower
widr	widr_x601-080	widr_x601-110	lower

Buttons "List File Create" and "Continue" are located below the table. To the right of the dialog box, a "Recipe" window shows "DF.exp.rcp" with a "Submit Time" of "11:40:33". Below the recipe, a "1 result" section displays alignment data:

- er Offset = (6.129, 10.952) [um]
- er Scaling = (2.903, 2.954) [ppm]
- er Ortho = 0.313 [urad]
- er Rotation = 319.582 [urad]
- er X^2 = (0.000000e+000, 0.000000e+000)
- er XY = (0.000000e+000, 0.000000e+000)
- er Y^2 = (0.000000e+000, 0.000000e+000)
- Wafer X^3 = (0.000000e+000, 0.000000e+000)
- Wafer X^2Y = (0.000000e+000, 0.000000e+000)
- Wafer XY^2 = (0.000000e+000, 0.000000e+000)

At the bottom left, a "vivo X50 Pro" camera alignment grid is visible, showing a grid of numbers from 1 to 40. The text "Alignment Feb 21 2022, 11:23" is also present.





Hardware Sub-fab

CymerLaser/AmpRack/
TempController/AirConditioner



Temperature
Controller

Air Conditioner

Hardware Sub-fab

CymerLaser/AmpRack/
TempController/AirConditioner



Manufacture Serial

Serial No. Plate



Additional Configuration Files

Machine ID:LKLN763			
Reticle Blind		Setting value	44583
XM Outside		400 ~ 800 um	650
XP Inside		400 ~ 800 um	650
YM Outside		400 ~ 800 um	610
YP Inside		400 ~ 800 um	620
Lens performance Data			
Illumination Check		Setting value	44583
ID1	Uniformity	$\leq 0.8 \%$	0.0056
	Power	$> 3000 \text{ mw/cm}^2$	3177
ID13	Uniformity	$\leq 0.8 \%$	0.00346
	Power	$> 3000 \text{ mw/cm}^2$	2533
ID15	Uniformity	$\leq 0.8 \%$	0.00433
	Power	$> 3000 \text{ mw/cm}^2$	2544
ID17	Uniformity	$\leq 0.8 \%$	0.00592
	Power	$> 3000 \text{ mw/cm}^2$	2568
ID21	Uniformity	$\leq 0.8 \%$	0.00508
	Power	$> 3000 \text{ mw/cm}^2$	3129
Wafer Stage Mirror Bow		Setting value	44583
Upper	Sub value X	$\leq 8 \text{ nm}$	1.695
	Sub value Y	$\leq 8 \text{ nm}$	1.053
Lower	Sub value X	$\leq 8 \text{ nm}$	1.133
	Sub value Y	$\leq 8 \text{ nm}$	0.919
Twist	Sub value X	$\leq 8 \text{ nm}$	5.337
	sub value Y	$\leq 8 \text{ nm}$	4.39
		Setting value	44583
Projection Lens Image Plane	Angle X	$0 \pm 1 \text{ urad}$	-0.051
	Angle Y	$0 \pm 3 \text{ urad}$	0.511
Field Inclination TFD	max - min	$\leq 0.080 \text{ um}$	0.0675
	All reading have?	Yes / No	YES
Flare check(Please inform EE when $E0 \leq 240 \text{mj}$)	E0	$\geq 240 \text{ mj}$	360
Best Focus		$0 \pm 0.015 \text{ um}$	0.004
Wafer Loader Repeatability (Front)		Setting value	44583
Y 3Sigma		$\leq 15 \text{ um}$	3.955
Rot 3Sigma		$\leq 200 \text{ um}$	112.742
X 3Sigma		$\leq 15 \text{ um}$	7.137
Rot mean		$0 \pm 200 \text{ um}$	141.461
Y mean		$0 \pm 10 \text{ um}$	1.758
X mean		$0 \pm 10 \text{ um}$	1.906
FIA Overlay Matching		Setting value	44583

Residual X 3Sigma		< 20nm	15.6
Residual Y 3Sigma		< 20nm	12.8
Plus/Minus Difference X		< 10nm	1.4
Plus/Minus Difference Y		< 10nm	4.5