Customer	
Machine Number	
Planned Schedule days	

System Health Pre-Check		Remarks
Software release	**8.9.0**	
Machine pending issue		
Customer support engineer		Line conditioner will not go with tool.
Patch level	**97c**	Seismic Restraints
Parts status		
Tool status		

Item	Procedure	Value	Pre Check
Slit Uniformity	Il5IllSliUni.PER	Annular:0.8/0.85/0.55	0.55
Intensity		Annular	1643
Dose Accuracy	Il5ScaDosAcc.PER	Repeatability	0.09
		Accuracy	-0.36
Wafer Level Telecentricity	Ip2TelWaf.PER1	Rx/Ry	4.07
REMA Offset	IlRetMasCal.ADJ1	Calibrated offset X0	
		Calibrated offset X1	
		Calibrated offset Y0	
		Calibrated offset Y1	
TIS Repro	TisRep.PER2(Vf0/Vf1/Vf2/Vf3/Vf4)	Max3 * STD pos.x [nm]	7.3, 6.1, 7.1, 6.8, 6.6
		Max3 * STD pos.y [nm]	4.5, 3.5, 2.5, 3.9, 4

		Max3 * STD pos.zx [nm]	22.4, 20, 21.9, 20.1, 20.5
		Max3 * STD pos Zy [nm]	15.8, 18.1, 17, 15.8, 17
		Failed scans	0,0,0,0,0
Corse Skew	Me5CrsSkw.ADJ2	Reticle to RS rotation Std dev	0.4
		Reticle to WS rotation Std dev	1
		Beam Length at zero Rz_x - New	11.4
		Beam Length at zero Rz_y - New	11.4
		Mirror to reticle rotation	15.7
		RS to WS rotation (skew)	21.3
		Reticle to RS rotation	-3.9
SWS Horizontal Servo Perfromance	SwsHorLvdMea.PER	MA-X	4.3
		MA-Y	4.7
		MA-Rz	29.7
		MSD-X	22
		MDS-Y	36
		MSD-Rz	90
MASR	AmCdt.PER3	Xt	2.61
			12.79
		Yt	2.61
			9.57
		Zr	2.79
			16.54
		Zt	1.92
			8.5
		Yr	1.05
			2.44
		Xr	0.87
			2.44
SWDP	SwsScaDyn.PER	MA-X	1.1
		MA-Y	0.6
		MA-Rz	19.2
		MSD-X	10.2
		MSD-Y	9.9

		MSD-Rz	171.3
SRUC	SrsQuaTst.PER2	**Max. Peak Position Err- all pos.**	
		X (nm)	33.8
		Y (nm)	15.4
		Rz (nm)	144
		Z (um)	0.064
		Rx (urad)	0.58
		Ry (urad)	0.589
		Max. accuracy and reproducibility During Scan - Mean	
		MA-X (nm)	3.5
		MA-Y (nm)	1.3
		MA - Rz (nrad)	10.8
		MA - Total Z (nm)	32.8
		MSD - X (nm)	15.8
		MSD-Y (nm)	6.9
		MSD - Rz (nrad)	58.7
		MSD - Total Z (nm)	66.8
Measure the stray light with SAMOS	Pr5MeaStrSMS.PER	Cleaning trigger max stray light at reference blocksize [%]	1.12
Straylight with Rema open and close	Pr5StrLgt.PER1	Maximum Stray Light Number [%]	0.53
TIS pupil	IllTisPupMea.PER	Graphic Ok or not ?	
	(Save all the files in /usr/asm/sys.0000/LI/LIPM)	Snapshot the pupil graph send the LI/LIPM .DAM file to David.Goodwin@asml.com	
		Sigma in	0.139
		Sigma out	0.704
		Ellipticity	-81.90%
		X/Y balance	.152% and 7.175%
OA wafer quality	AlaOA_WafQu.ADJ4	Max NF-r	3057
		Max NF-g	2079
OA repro	ALaOA_REP.PER	SD X and Y values	yes
Zero calibration	SwsZerSenCal.ADJ	Home to Zero distance X [mm]	-15.044
		Home to Zero distance Y [mm]	30.689
		Home to Zero_angle [mrad]	0.509
		Zero sensor slope X [nm/bit]	17.244
		Zero sensor slope Y1 [nm/bit]	16.198

		Zero sensor slope Y2 [nm/bit]	16.905
		Zero to Init Angle [mrad]	0.509
		Initial Vertical position:	
		Z[mm]	0
		Rx[mrad]	0
		Ry[mrad]	0
		Y1-Y2 Zero Sensor Distance[mm]	175
Takeover qualification	WhDipTao.PER1	Measurement reproducibility:	
		x SDEV	0.1
		y SDEV	0
		phi SDEV	2
		Swap up to takeover to dipod:	
		dx SDEV	0.4
		dy SDEV	0.4
		dphi SDEV	8.1
		Swap up to dipod rotation:	
		dx SDEV	0.6
		dy SDEV	1.1
		dphi SDEV	20.8
		Swap up to E-pins:	
		dx SDEV	0.9
		dy SDEV	0.7
		dphi SDEV	40
		Swap up to E-table:	
		dx SDEV	0.9
		dy SDEV	1.1
		dphi SDEV	24
Edge sensor repro	WhEdgSnsRep251.PER	Standard dev. Xalign	1.66
		Standard dev. Yalign	0.88
		Standard dev. rot	29.72
LS height and tilt	Ls8PlaHeiTil.ADJ	Screw values A,	8
		Screw values B	4
		Screw values C	7
LS performance	Ls8CrsFin.PER		
	Laser Status:	Measurement [V]:	
	Reference [V]:4022.456.4807* Laser unit	Reference [V]:	
	Measurement [V]:4022.456.4807* Laser unit	Measurement [V]:	
	Laser Transmission	Measurement [V]:	-7.482

		Measurement [V]:	2.402
Check Focus Reproducibility	Ls8FocRep.PER	Absolute Std. Dev. Total Z [um]	0.0108
		Absolute Std. Dev. Rx [urad] (along slit axis)	0.271
		Absolute Std. Dev. Ry [urad] (along scan axis)	0.322
Image quality reproducibility	Me5SysCor.PER1	Magnification [ppm]	0.3
		Rotation [urad]	0.17
		Translation X [nm]	3.66
		Translation Y [nm]	2.49
		Image Tilt Rx [urad]	3.63
		Image Tilt Ry [urad]	0.83
		Focus [nm]	11.93
		StoLe Tilt Rx [urad]	0.39
		StoLe Tilt Ry [urad]	0.3
		Actuator Tilt Rx [urad]	0.28
		Actuator Tilt Ry [urad]	0.27
Global align repro(OA)	Me5GloAlRep.PER	Scan scaling [ppm]	**0.04**
		Scan skew [µRad]	**0.02**
		Reticle translation X	**-0.77**
		Reticle translation Y	**-2.28**
		Reticle mag	**0.039**
		Reticle rotation	**0.033**
		Wafer translation X	**0.005**
		Wafer translationY	**0.006**
		Wafer magnification	**0.029**
		Wafer rotation	**0.023**
Image Plane Deviation / AST	Pr8DynFocSin.PER	Image Plan Deviation	**11**
		Astigmatism	**5**
	Pr8QuaDynDis.PER	Image Distortion Non Correctable Error	**X=6.6/Y=6.9**
Stage accuracy	Me5WsAccDyn.PER2	Stage Repeatability X and Y	**2.7**
		Stage Repeatability Y and Y	**2.1**
stage grid verification	Me5GrdVer.PER	Vector, 3 sigma;XX	**13.3**
		Vector, 3 sigma;XY	**6.5**
		Vector, 3 sigma;YX	**21**

		Vector, 3 sigma;YY	**5.9**