

System Inspection sheet

Model : NV-GSD/HE (SEN)

	SEN NV-GSD/HE Configuration	Remark
Vacuum system		
Cryo Compressor	ALSIN SEIKI TAC491L 2EA.	
Process chamber Cryo	GA-08F (P9)	
Beamline Cryo pump 1	ALSIN 8" (P2)	
Beamline Cryo pump 2	ALSIN 10" (P3)	
Source Pump		NONE
AMU Turbo pump		NONE
LINAC Turbo pump	STP-600C x 2 (P4, P5)	
Terminal Rough Pump	EBARA A07	
LINAC Rough Pump	EBARA A30W-C	
Endstation Rough Pump	EBARA A07	
Vacuum controller	HCIG	
IG3	Ion Gauge	
Endstation Info		
Cassette capability	Four cassette	
wafer size	200mm	
wafer notch alignment	automatic Notch alignment capability with buffer cassette	
Dummy wafer	Integrated "Dummy Wafer" Fill-In Capability	
Wafer handling system	In-Air/In-Vacuum High Throughput Wafer Handling System	

Particle Filter system	Class 1, UPLA Filtered Wafer Handling System	
Implant angle capability	Two Axis Variable Implant Angle(+/- 11 deg in two axes)(Quad Implant Capability)	
Process disk spindle	GSD series Process disk(installed).	
Beam monitoring system	In Situ Beam Potential Monitor	NONE
	Real-time patented Dose Control	
	Real-Time Beam Profiler(single dimension)	NONE
Process Disk	Silicon coated process disk	
Process disk cooling interlock	Y	
Asyst LPT2200 smif Interface capability	N	
Terminal Info		
Gas box Option	Modular gas box	
	Four String Gas Box Options	
	MFC 10CCM ARGON. ASTEC	
	MFC 5CCM BORON .ASTEC	
	MFC 20CCM PH3 . ASTEC	
	MFC 20CCM PH3 . ASTEC	
Extraction PS	100KV	
Extraction voltage monitor	Y	
Vaporiser	Y (for Ashine Gas)	

Ion Source	SEN TYPE	
Source bushing	Extended life bushing	NONE
	Source liner for Extended life bushing	NONE
N2 purge	Bypass Valve and Nitrogen Purge	NONE
Extraction Electrode	3-Axis Extraction Electrode.(SEN TYPE)	
AMU system	Triple Indexed Mass Analysis Magnet and Power Supply	
Injector faraday	Injector Flag Faraday	
	Dry transformer	
LINAC and FEM		
3kW 13.56 MHz Power Supplies	10	
High Energy Resonator Cavities and Electrodes	10	
Quadrupole Lens Assemblies and Power Supplies	10	
Resolving Faraday	Y	
Double Indexed Final Energy Magnet(FEM) and Power Supply	Y	
Charge Control Technology(SEF - Secondary Electron Flood)	N	
SVR	N	
Closed-Loop Cooling System Selection		
Cooling system	TCW-60K 3EH 50-60HZ	
General Info		
Control UPS	Y (SAN UPS 001-ASH30A) .SANYO Electron	

Main Isolation transformer	Y	
Abatement system	NONE	
Software version	?	
Smoke detector	Y	
Exhaust Flow switch	Y	
Water leakage sensor	NONE	
Light Tower	Y	
Real Time Particle Detection System	Fully Integrated HYT PM250	NONE
Advanced Automation Package	SUN Operator Workstation :	
	Hard Drive, Tape Cartridge, 19" LCD Monitor	
	Automated SPC Data Collection and Analysis (SPC Drive)	NONE
	SECS I and SECS II Protocols, GEM Interface and Ethernet Ports	NONE