

Tool Configuration Sheet

Description	
Equipment composition	1.Main Body
	2.Machine controller
	3.RF Rack
	4.PC temperature controller
	5.Exhaust set
1.Process chamber	1-1.Upper electrode
	1-2.Lower electrode
	1-3.Sidewall
	1-4.Exhaust
	1-5.RF System
	RF Gen
	Matcher
	Power splitter
	1-6.Gas species(MFC Type)
	GAS 1
	GAS 2
	GAS 3
	GAS 4
	GAS 5
	B.P.C
	B.P.E

	1-7.EPD
2.L/L	2-1.Transport
3.Transport system	3-1.Indexer
	3-2.H/A
	3-3.P/A
	3-4.E/S
4.Temperature controller	Chiller
5.pump Unit	TMP
6.AC POWER BOX	6-1.Voltage drop transformer
	6-2.Transformer heating interlock

Upper Electrode body	
Baffle plate	
Upper cooling plate	
Crystal electrode	
Shield ring(Quartz)	
Clamp ring(Ceramic)	
Temperature control range(20~60°C)	
Electrostatic chuck	
Exhaust ring	
Insulator guard	
Insulator guard ring	
Temperature control range(-30~25°C)	
Upper and lower electrode spacing setting range : 9~20mm±0.1mm	
Deposhield	
Temperature control range(室温~60°C)	
Throttle valve : CMLA-11 10Torr (Tyran General)	
APC : AC-2 (Tyran General)	
Capacitance manometer : CMLA-11 10Torr (Tyran General)	
Upper and lower electrode application method	
DAIHEN NFG-20SA3 380KHz 2000W	
DAIHEN NFM-20SA2 380KHz 2000W	
DAIHEN NFT-20SB 380KHz 2000W	
AERA FC-770AC	
CHF3 : 100sccm	
CF4 : 200sccm	
Ar : 1000sccm	
N2 : 50sccm	
O2 : 100sccm	
He : 30sccm	
He : 30sccm	

Monochromator(JOBIN YVON H-10V)	
Emission spectroscopy method	
Wavelength variable range : 200~800nm	
Robot transfer by 2-way operation	
Arm holder : Conductive Teflon coating	
Wafer sensor : OMRON E3Y-R2C43S)	
Carrier sensor : Transparent	
Uni-cassette method	
Wafer sensor output : >44.7μW (Safety measure)	
Tweezers : ceramic (Conductive Teflon coating)	
Transport : Robot transfer by 3-way operation	
Tweezers : Aluminum A5052(Conductive Teflon coating)	
Chuck : Aluminum A5056(Conductive Teflon coating)	
Aligner : Non-contact orientation flat detection	
Chuck : Aluminum A5056(Conductive Teflon coating)	
SMC INR-341-54E	
Upper electrode :20~60°C , Lower electrode : -30~10°C	
STP-H751E(SEIKO SEIKI)	
Isolation transformer	