

# **PTW ASIA PTE LTD**

ASM International A412 Nitride  Vertical LPCVD Furnace									
Manufacturer	ASM								
Model	A412								
Product Description	Vertical LPCVD Furnace								
Year of Manufacture	2006								
Serial Number	30270/10								
Wafer size	300mm								
Process	NITR								
System, Gen	eral Specification								
Heater element Model	MRL 2								
Process Condition	NIT LP								
Maximum Operating Temperature	900c 700 Degree C								
N2 Load Lock	Yes 1								
Wafer Type	12 Inches								
Qty. of Production Wafers	100 pieces per boat 120 slots per boat								
<b>Boat Operation</b>	Dual boat								
Dual chamber	4								
Software Version	6.8c								
Syster	n, Furnace								
Loading Area	Light White 1								
Force Air Cooiling system	Fast ramp 2								
Side Maintenance	Yes								
O2 Density control	0-100ppm 2								
N2 Boat shower wafer cooling	n/a								
Furnace Temperature Controller	MTC								
System, Wafe	r/Carrier Handling								
Carrier Type	12" FOUP								
Carrier Stage Capacity	12" FOUP 32								
Robot Type	GenMark 1								
Wafer alignment	n/a								
Wafer Teaching method	n/a								

System, Gas Distribution										
IGS Maker / Type	Fujikin 2									
IGS MFC Maker /	Type HORIBA SEC-Z512MGCT									
IGS Press Transducer Maker / Type	Mykrolis WG3S									
System, Exhaust Specification										
Vacuum Gage	2 torr N/A									
Vacuum Gage	10 torr MKS 2									
Vacuum Gage	1000 torr MKS 2									
Main Valve	MKS 2									
Pump Maker/Model	EDWARDS 1800HTX 2									
Low vacuum valve	MKS 2									
Trap	ASM 2									
Vacuum Pressure Controller	MKS 2									
Vacuum Gage	2 torr N/A									
System	n, Reactor									
Process Tube (LP)	Quartz 1									
Outer/Inner Tube Material (LP)	Quartz 2									
Inner Tube Type (LP)	Quartz 2									
Inner T/C	TYPE-R LPC /Topco 2									
Boat Materail/Type	SiC 4									
<b>Boat Rotation</b>	Yes 2									
Pedestal Materail/Type	Quartz 4									
Auto Shutter	Yes 2									
System, Po	wer Distribution									
Voltage 3phase	480VAC									
Voltage Single	phase 3									
Frequency	60HZ									
System, U	Jser Interface									
Operation Panel	Screen 3									
Indicator Type	Touch panel 1									
Operation software type	Windows									
Gas Leak Detector										
Gas Leak Detector Material/Type										
Damage/Missing parts list										
Please inspect tool to reconfirm										
Dry pumps not included										







## Micron FAB11 ANITBC0400(LDNC 201 30270)





Tool Status R1 SCS



#### **Robot Status**

CHR WHR





## **Power Supply Brake**

R1 R2





## TCP/ECP



## **Supply Gas Status**



#### **Heater Status**



**TCF Status** 



N2 Purge Source Line



## Fast ramp blower status

R1

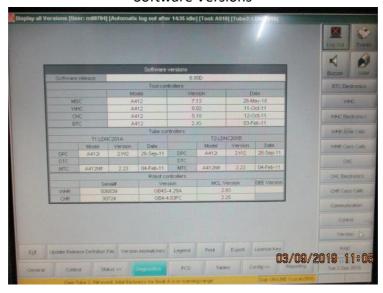




MV jacket heater &Trap



#### **Software Versions**



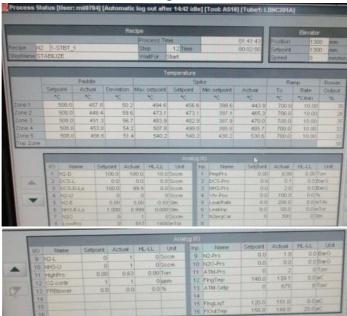
Digital I/O R1



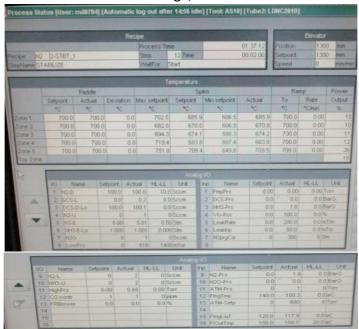
Digital I/O R2



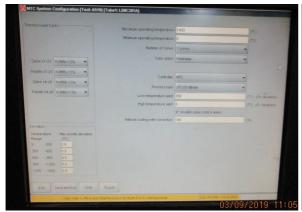
## Analog I/O R1

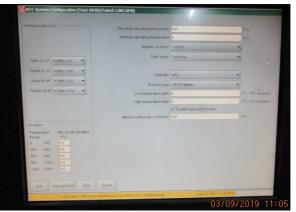


## Analog I/O R2



R1 R2





Stoker status
UTM motor broken



#### Motion part control status



# Boat setting status R1 Boat wafer slot setting

	Type		Water size (mm)	Slots	Plich ( 1/100			Litt.Orop	Distance 1/10					Marting:		Phys. space
Bost A	380mm120	-	300	120	3006	0	1000	150	100	90	190	225	250	90	160	130
Bowl B	300mm120	-	300	120	3006	0	1000	150	100	90	100	225	250	80	100	130
Box C	None	-														ME.

## R2 Boat wafer slot setting

	Туре		Water size (inm)	Slots	Pitch ( 1/100			Litt.Orop	Distance 1/10			Warning space				
Bost A	300mm120	-	300	120	3008	0	1000	150	100	90	190	225	250	90	100	130
Bowl B	300mm120	-	300	120	3006	. 0	1000	150	100	90	100	225	250	80	100	130
Box C	None	3														

## PTW ASIA PTE LTD



All Equipment is offered subject to prior sale. This item will be quoted based upon specific terms and configuration required. Interested parties may contact PTW Asia Pte Ltd at:

ask@ptwsingapore.com

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