

Tool Configuration

General information

CE Certification Yes ☐ No ☒ CE documents present Yes ☐ No ☒

OEM

Model /type

OEM S/N:

Other ID numbers

Applied Materials	AMC7811		
Manufacturing date	Process type	Number of process chambers/baths	Wafer size
28-Feb-90	Epitaxy	1	4" 5" 6"

Controller

System Controller Type Software version Type and number of HDD or Memory bds

Turbo Console	290				
Account	Operator	Engineer	Administrator	xxx	xxx
Password	-	epitaxy	-	-	-

Machine

Number and name of separate modules comprising complete tool

	Ballroom	Through wall
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Power requirements

Electrical power	1 ph <input type="checkbox"/>	3 ph <input checked="" type="checkbox"/>	50 Hz <input checked="" type="checkbox"/>	60 Hz
Rating	V	480 V		350 A
External UPS in place	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		

Wafer handling

Number of Cassettes	0	Cassette Stocker	Yes	No <input type="checkbox"/>
		Brand		Type
Cassette Robot	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
Smif	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			

Wafer transfer

Wafer Robot	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
End Effector type		End Effector material	
Wafer Sensing type			
Flat Aligner	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Cooling station	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Transfer Chamber	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Gas/chemical supply/cabinet

Gases/Chemicals Inlet top feed ☒ bottom feed ☐

Gas/chemical lines

	Gas/chemical	MFC size	MFC brand	MFC type
Line 1	TCS	5 g/min	Qualiflow	LVC414 1SLM/200%/5g/min
Line 2	HCl	30SLM	Brooks	5850S 30SLM HCl Kalrez
Line 3	PH3	200SCCM	Brooks	5850S 200SCCM H2
Line 4	AsH3	200SCCM	Brooks	5850S 200SCCM H2
Line 5	B2H6	200SCCM	Brooks	5850S 200SCCM H2
Line 6	H2	200SLM	Brooks	5851S 200SLM H2
Line 7	H2	20SLM	Brooks	5850S 20SLM H2
Line 8				
	Gas/chemical	MFC size	MFC brand	MFC type

MFM 1

MFM 2

			Brand	Type
Gas / process controller	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Moore Technologies	Turbo Console
Valves				

			Gas name	Brand	Type
Gas/chemical detection	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Check valves	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Bubbler	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Gas/chemical analyzer	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Purge unit	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Supply Line Heat Control	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Process chamber/Tube/Bath

Chuck	Electrostatic <input type="checkbox"/>	Mechanical <input checked="" type="checkbox"/>
Heater type	IR	number of zones 8
T/C configuration	3 IR eyes	
Chamber/quartz configuration	belljar	
Process type	ATM/RP	

			Brand	Type	Gas name
Bubbler	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Exhaust control	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Gas/chemicals detection present	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	OEM		

Remarks

Boat/wafer elevator	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Boat/wafer rotation	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

Vacuum

			Brand	Type
Pressure controller	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	OEM	
Chamber Vacuum Pumps	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		
Cryo Compressor	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		
Foreline Pumps	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		
Plasma generation				
RF generator	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		
Cooling				
Heat Exchanger	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	OEM	

Remarks:

General: extensive rework has been done in 2009: replacement of all pneumatic valves, electrovalves, MFC's, system controller
RP process capable, expansion kit

