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Customer Name : Form :

Order Information

Order Date: 19-Oct-16

Disassembly:

Centura Type: Super E

Project Number:

Assembly:

AMAT Serial Number: ED76

Quote I.D.:

Final Test:

Oxide

Ship Date:

Source Inspection:

System Diagram

Gas Panel Facilities

Bottom Feed Single-Li

Gas Panel Exhaust

Bottom Feed

Gas Panel Type

Seriplex

Liquid Source

None

Gas Lines

Standard

MF Facilities

Bottom

System Power

208Vac,300 Amp, 50/60 Hz

Mainframe

CENTURA1 Phase II

Loadlock Pump Type

None

Loadlock Pump Configuration

None

Loadlock Slit Valves

Chemrez

Heat Exchanger 1

n/a

Heat Exchanger 2

n/a

Heat Exchanger 3

n/a

VME Rack

Standard

Hard Drive

Chase CRT

NO

Subfab CRT

NO

OTF

NO

Chamber A

Super E

Process A

Oxide

Chamber C

Super E

Process C

Oxide

Chamber E

None

Chamber B

Super E

Process B

Oxide

Chamber D

None

Process D

Chamber F

Orienter

Robot Blade

Metal

Wafer Size / Type

200mm Flat

Software Revision

Fab Installation

Stand Alone

Robot Type

HP

Loadlock Type

Narrow Body w/Tilt Out

Wafer Sensors

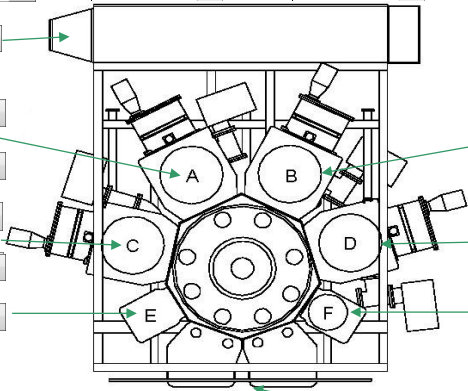
Wafer Slide

System Umbilicals

50 ft - standard

EMO's

Turn to Release



System Information

System Notes:

Scope of Work:

Chamber A Information

Chamber Type

Super E

Manometer Config

Single

Manometer 1

1 Torr

Manometer 2

n/a

Slit Valve O-Ring

Chemraz

Chamber O-Rings

Chemraz

Chamber Process

Oxide

Lid Type

Single gas feed-thr

Throttle Valve

Butterfly

LF Generator

OEM 28B

HF Generator

n/a

RF Match

0010-30686

Susceptor /Pedestal

Electrostatic Chuck

Wall Cooling

Neslab

Heater / Cathode Cooling

Neslab

Endpoint System

NO

Enpoint Software Rev.

Chamber Clamps

YES

Process Kit Type

Standard

Chamber Pump

None

Pump Configuration

None

Turbo Pump

Edwards STP-301C

Heated Valve Stack

NO

Chamber Gasses:

MFC Size		Gas Name	MFC Type	Gas Stick Configuration
Gas 1			MILLIPORE	Standard
Gas 2			Tylan	Standard
Gas 3			Tylan	Standard
Gas 4			Tylan	Standard
Gas 5			Tylan	Standard
Gas 6			Tylan	Standard
Gas 7				
Gas 8				
Gas 9				
Gas 10				
LFC Size		Liquid Name	LFC Type	Gas Valves
Remote 1				Veriflo
Remote 2				
Remote 3				

Chamber Notes:

Chamber B Information

Chamber Type	Super E	Chamber Process	Oxide	Susceptor /Pedestal	Electostatic Chuck	Process Kit Type	Standard
Manometer Config	Single	Lid Type	Single gas feed-thr	Wall Cooling	Neslab	Chamber Pump	None
Manometer 1	1 Torr	Throttle Valve	Butterfly	Heater / Cathode Cooling	Neslab	Pump Configuration	None
Manometer 2	n/a	LF Generator	OEM 28B	Endpoint System	NO	Turbo Pump	Edwards STP-301C
Slit Valve O-Ring	Chemraz	HF Generator	n/a	Enpoint Software Rev.		Heated Valve Stack	NO
Chamber O-Rings	Chemraz	RF Match	0010-30686	Chamber Clamps	YES		

Chamber Gasses:

MFC Size		Gas Name	MFC Type	Gas Stick Configuration
Gas 1			MILLIPORE	Standard
Gas 2			Tylan	Standard
Gas 3			Tylan	Standard
Gas 4			Tylan	Standard
Gas 5			Tylan	Standard
Gas 6			Tylan	Standard
Gas 7				
Gas 8				
Gas 9				
Gas 9				
Gas 10				
LFC Size		Liquid Name	LFC Type	Gas Valves
Remote 1				Veriflo
Remote 2				
Remote 3				

Chamber Notes:

Chamber C Information

Chamber Type

Super E

Manometer Config

Single

Manometer 1

1 Torr

Manometer 2

n/a

Slit Valve O-Ring

Chemraz

Chamber O-Rings

Chemraz

Chamber Process

Oxide

Lid Type

Single gas feed-thr

Throttle Valve

Butterfly

LF Generator

OEM 28B

HF Generator

n/a

RF Match

0010-30686

Susceptor /Pedestal

Electrostatic Chuck

Wall Cooling

Neslab

Heater / Cathode Cooling

Neslab

Endpoint System

NO

Enpoint Software Rev.

Chamber Clamps

YES

Process Kit Type

Standard

Chamber Pump

None

Pump Configuration

None

Turbo Pump

Edwards STP-301C

Heated Valve Stack

NO

Chamber Gasses:

MFC Size

Gas 1

Gas 2

Gas 3

Gas 4

Gas 5

Gas 6

Gas 7

Gas 8

Gas 9

Gas 9

Gas 10

LFC Size

Remote 1

Remote 2

Remote 3

Gas Name

Liquid Name

MFC Type

Tylan

Tylan

Unti 1660

Tylan

MILLIPORE

MILLIPORE

LFC Type

Gas Stick Configuration

Standard

Standard

Standard

Standard

Standard

Standard

Gas Valves

Veriflo

Chamber Notes:

Chamber D Information

Chamber Type

None

Manometer Config

n/a

Manometer 1

n/a

Manometer 2

n/a

Slit Valve O-Ring

n/a

Chamber O-Rings

n/a

Chamber Process

n/a

Lid Type

n/a

Throttle Valve

n/a

LF Generator

n/a

HF Generator

n/a

RF Match

n/a

Susceptor /Pedestal

n/a

Wall Cooling

n/a

Heater / Cathode Cooling

n/a

Endpoint System

n/a

Enpoint Software Rev.

n/a

Chamber Clamps

n/a

Process Kit Type

n/a

Chamber Pump

None

Pump Configuration

None

Turbo Pump

None

Heated Valve Stack

NO

Chamber Gasses:

MFC Size

Gas 1

Gas 2

Gas 3

Gas 4

Gas 5

Gas 6

Gas 7

Gas 8

Gas 9

Gas 10

Gas 11

LFC Size

Remote 1

Remote 2

Remote 3

Gas Name

n/a

n/a

n/a

n/a

n/a

n/a

Liquid Name

MFC Type

LFC Type

Gas Stick Configuration

n/a

n/a

n/a

n/a

n/a

n/a

Gas Valves

n/a

Chamber Notes:

[illegible]

	n/a
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Gas Panel Information

<u>*Gas Panel Enclosure</u>	<u>*Gas Panel Facilities</u>	<u>*Liquid Source</u>	<u>*MFC Type</u>	<u>*Gas Type</u>	<u>*Liquid Type</u>
29" 31"	Top Feed Multi-Line Top Feed Single-Line Bottom Feed Single-Line	Hot Box PLIS EPLIS GPLIS None	Aera 780C MILLIPORE STEC 4400 MC Mtl Seal (5 Ra - Std) STEC 4400 RC Viton Seal (15 Ra) Tylan 2902 Metal Seal (15 Ra) Tylan 2902 Viton Seal (15 Ra) Tylan 2952 Metal Seal (5 Ra) Tylan FC-D980C	N2 SiH4 N20 NH3 Ar BCI3 C2F6 N2 He CF4 NF3 O2 SF6 CHF3 H2	TEOS TMB TMP Other None
n/a	n/a	n/a	Other STEC LF-410A-EVD TEOS 1.5g STEC LF-310A-EVD TEOS 0.5g STEC LF-310A-EVD TEOS 0.1g Unti 1660	N2 He CF4 NF3 O2 SF6 CHF3 H2	n/a
<u>*Gas Panel Type</u>	<u>*Gas Panel Exhaust</u>	<u>*LFC Type</u>	<u>*MFC Size</u>		<u>*Valves</u>
Standard HP UHP Seriplex Other	Top Feed Bottom Feed Top Feed AC side BD side		10 sccm 20 sccm 25 sccm 30 sccm 50 sccm n/a	None He-O2 HBR CI2 CH3F CO CH2F2 C4F8	Veriflo Nupro Fujakin Other
n/a	n/a	Other n/a	100 sccm 200 sccm none		n/a
<u>*Gas Panel Type</u>	<u>*Gas Line Filters</u>	<u>*LFC Size</u>			<u>*Gas Stick</u>
Standard Expanded - 28 lines Custom	Mott Millipore Pall Other		500 sccm 1 slm 2 slm 50 sccm 4 slm 5 slm 10 slm 20 slm		Standard Bypass Bypass w/ Purge
n/a	n/a	Other n/a		n/a	n/a

Chamber Information

<u>*Process Chambers</u>	<u>*Process Type</u>	<u>*Process Kit Type</u>	<u>*Suceptor/Pedestal</u>	<u>*RF Generators</u>	<u>*Manometer Config</u>	<u>*Throttle Valve Type</u>
RTP XE+	Al	Undoped TEOS	Clamped	ENI 12B3	Single	Direct Drive
ASP+	ASP	Doped TEOS	TEOS	ENI 6A	Dual	Single Spring
Sputter	BPSG TEOS	Undoped TEPO	Silane	OEM 12 A	n/a	Dual Spring
Cooldown	BWCVD	Doped TEPO	Nitride	OEM 12 B		Butterfly
CVD	DPS	Silane Nitride	Universal	AE RFG 2000-2v		
PECVD	DPN	Silane Oxide	Resistive Heater	AE RFG 2000-2v		
DPN	FSG TEOS	Amorphous Silicon	RIE	ENI GMW-25		
DPS	HDP-CVD	None	Sputter Etch	OEM 28B		
DxZ	ISSG	Clamped	Electrostatic Chuck	RFPP RF20		
Etch	MkII	ESC	Other	n/a	n/a	n/a
IMP	Oxide	Standard	Chuck	RFPP RF 5		
ISSG	OxyNi			<u>*RF Match</u>	<u>*Manometer Size</u>	
MkII	Poly			High Efficiency	1 Torr	
MxP	PRSP	n/a		Phase 4 - CVD	10 Torr	
TxZ	PSG TEOS	<u>*Turbo Pump</u>		Phase 4 - Etch	20 Torr	
WxZ	PSG TEPO	Leybold		Bias Match	100 Torr	
PRSP	PVD - TxZ	Ebarra		0010-09416	1000 Torr	
RTP	RTP	Seiko-Seiki		0010-09417	None	
EPI	Si FSG	Other	n/a	0010-30686	1000mTorr	
Polygen	Si PSG	None	<u>*Lid Type</u>	0010-36162	n/a	n/a
None	Si USG	Edwards STP-A1603C	Unilid	n/a	<u>*O-Ring Type</u>	
Singen	SiNi	Edwards STP-301C	Single gas feed-thru		Viton	
Super E	SiO2		Dual gas feed-thru		Chemraz	
MxP+	Sputter		Heated (Etch)		Kalrez	
<u>*Support Chambers</u>			Clamped unilid			
Orienter	Ti-Ni					
Orienter / Degass	Trench					
Single-Slot Cooldown	USG TEOS					
Multi-Slot Cooldown	USG TEPO					
Other	WCVD					
None	WSiX					
Enhanced cooldown	TiSi					
	Oxide	n/a	n/a		n/a	n/a
	PolySi					
	Strip					
n/a	n/a					