_	ı	1		ı	ı	1	T	EAD 4 A = DE3 (70050 5000A)	1
							Critical H/W&S/W Commonality Component	FAB 1 ArF RF <sup>3</sup> (70050-5023A)  Description/quantity	Part#
,,	s	Ϊξ		Operation			Critical H/W&S/W Commonanty Component	Description/quantity	Fait#
) cts	ses	abi	ž	rati	ipe				
Defects	Process	Reliability	Safety	be	Recipe	PM			
	ΙΔ.	œ	(O	O	œ	а.	SOFTWARE/COMPUTER/NETWORKING		
			Х	Х			Software Rev		Cypress version will differ on 6/04
			X				Main Controller	Pentium III 600MHz	Windows2000 Server (ML)
							WAFER TRANSPORT	m.	
			Х	Х		Х	Wafersize	8" & 12"	
			Х				FOUP & SMIF Capability	FOUP, but no 200mm SMIF	200mm open cassette
Х	Х	Х					Type Of Robot	RF3 TR	
	Χ						Upper Robot Arm	1	
	Χ						Lower Robot Arm	1	=
		Х		Х			Main Handler Units (Inter-Cell)	200mm & 300mm capable	End-effector change
		Х		Х			# MHU Robots	4	
	Х		Х				Type Of Wafer Detection Sensor (Robot)	Break Beam	
<u> </u>	Х	Х	Х				Type Of Robot	X-Z-Theta	
-		Χ		X			Robot Speed Type Of Indexer Arm	4 sec	
			X	X			Type Wafer Detecion Sensor (at Indexer)	Vac.Less Reflective	
	· ·		X	X			Interface Unit	ASML /1250 IFB	
X	Х		X	X			Interfaced Stepper Ports	2	
Α.	1	-	X	X			Type Of Wafer Detection Sensor	Break beam	
-	1		^	_^			Facilities connections	Back-side	
							Coat Cell #1 & #2	Size specific (200-300mm)	Divide by 2 to get # modules / cell
							ADHESION PLATES	0.25 opcomo (250 000mm)	2do by 2 to got # moddies / tell
			Х	Х			# Plates	2	
X	Х		<del>  ^</del>	X	Х	Х	Type Of Plates	LPAH	
X	^		1	^	^		Heater	Mica - Electrical Element	
X	1		1			^	Proximity Distance	Ceramic.Balls, Dia=3/32"	
X				Х	Х		Type Of TCU	PID Controls	
X					X		Accuracy Of TCU	+/-0.2deg	
Х					Х		Temperature Sensor	TC	
			Х	Х			Location	see drawing	
Х				Х		Х	LPAH Vacuum System	Yes	
							ARC PLATES		
			Х	Х			# Plates	4	
Х	Х			Х	Х	Х	Type Of Plates	Hot Plate 250C max	
Х						Χ	Heater	Electrical Element	
Х							Proximity Distance	Ceramic.Balls, Dia=3/32"	
Х				Х	Х		Type Of TCU	PID Controls	
Х					Х		Accuracy Of TCU	+/-0.2deg	
Х					Х		Temperature Sensor	TC	
			Х	Χ			Location	see drawing	
							SOFTBAKE PLATES		
			Х	Χ			# Plates	6	
Х	Х	<u> </u>		Х	Х		Type Of Plates	Position- Rapid Hot Plates	
Х		ļ				Х	Heater	Heat Pipe w/ integrated cooling arm	
X		<u> </u>					Proximity Distance	Ceramic.Balls, Dia=3/32" PID Controls	
X		<u> </u>		Х	X		Type Of TCU Accuracy Of TCU	+/-0.2deg	
X					X		Temperature Sensor	TC	
Х			V	V	Х		Location	see drawing	
			Х	Х			COOL PLATES	500 drawing	
			Х	Х			# Plates	8	
Х	Х	<del>                                     </del>	^	X	Х	Х	Type Of Plates	Cooling Plate	
X	<u> </u>	<b>-</b>		^	^		Cooling Pipe1	2	
X			l -				Cooling Pipe 2	2	
X		<b>†</b>					Proximity Distance	Ceramic.Balls, Dia=3/32"	
X		<del>                                     </del>				Х	Type Of TCU	PID Controls	
X		t		Х	Х		Accuracy Of TCU	+/-0.2deg	
X					Х		Location	see drawing	
X		i –			Х		LPAH Vacuum System	Yes for ACP	
С							COAT CUPS CONTROLLERS		
Х				Х			# Spin Modules	6	
	Х				Х		# Spin modules with VPS+ option	6	
							Resist Cups (Upper)	Poly Propylene	
	Х				Х		Resist Cups (Lower)	Poly Propylene	
				Х			Baffle Disc (Upper)	Teflon	
<u> </u>	Х				Х		Baffle Disc (Lower)	Teflon	
Х			<u> </u>		Х		Type Of Chuck	PEEK	
<u></u>	Х	<u> </u>	<u> </u>		Х	Х	Size Of Chuck	Substrate dependent	
<u></u>	Х	<u> </u>	Х	Х	Х		# Resist Nozzles/cup	6 each	
1			l					U2,U5 & U3,U6 (Resist) U1,U4	
<u> </u>	<u> </u>	<u> </u>	<u> </u>				Nicesia#4	(BARC)	
X	X	<u> </u>	<b> </b>	-	-		Nozzle#1 Nozzle#2	2.0/7.0 2.0/7.0	
X	Х	<u> </u>	<u> </u>	-	-			2.0/7.0 2.0/7.0	
X	Х	<u> </u>	<b> </b>	-	-		Nozzle#3	2.0/7.0 2.0/7.0	
X	X	<u> </u>					Nozzle#4 Nozzle#5	2.0/7.0 xxxx 2.0/7.0 xxxx	
X	X	<u> </u>	<b>-</b>				Nozzle#5 Nozzle#6	2.0/7.0 xxxx 2.0/7.0 xxxx	
Х	X	<u> </u>	<b>-</b>				Type Of Resist Nozzle	Z.0/7.0 xxxx Teflon Tube w/ Taper	
<u> </u>	Χ	<u> </u>	<u> </u>		Χ	Х	1 Abo OI IVESIST MOTTIE	Tottott Tube W/ Tapet	

							O-1611 110MO OOM O	Description/property	D-mt#
		ξ		u			Critical H/W&S/W Commonality Component	Description/quantity	Part#
ts	Process	Reliability	>	Operation	æ				
Defects	ö	ä	Safety	er	Recipe	_			
De	Ę.	Re	Sa	õ	Re	P			
				Х	Х		Dimensions Of Resist Nozzles	OD/ID=4/3	
Х						Х	Suck Back Unit	TDV Valve	
Х				Х			# BARC Cups	2	
Х			Х				BARC Cups (Upper)	Teflon	
							BARC Cups (Lower)	Poly Propylene	
				Х			Baffle Disc (Upper)	Teflon	
	Х				Х	Х	Baffle Disc (Lower)	Teflon	
				Х	X		Type Of BARC Chuck	Delrin	
	Х			^	X	Х	Size Of BARC Chuck	Dia=80mm	
	X				X		# BARC Nozzles/cup	3	
	_			.,		Λ.	Type Of BARC Nozzle	Teflon Tube w/ Taper	
	Х		Х	Х	X		Dimensions Of BARC Nozzles	OD/ID=4/3	
	Х				Х	Х	Difficusions of barc nozzies	OD/ID=4/3	
							# Fotons Baselan as at Name to (Our /alas at a least at)	4	
Х	Х						# Future Development Nozzles/Cup (already plumbed)	1	
				Х	Х		Dimensions Of EBR Nozzles Orifice	0.3mm	
Х						Х	BSR Nozzle	2each 2each	
Х				Х			CR Nozzle	1	
Χ				Х			Exhaust Hose	3	
					Х	Х	Exhaust Hose (Outer)	3	
					Ė	Ė	Exhaust Damping	Yes	
Х						Х	Pot Rinse Flowmeters (with sensors)	Tokyo Keiso	
X	<del>                                     </del>	1	1		$\vdash$		BSR Flowmeters (with sensors)	Tokyo Keiso	
	-	-	- V	-	-	X	HMDS Flowmeters (with sensors)	Tokyo Keiso	
Х		-	Х	-					
	Х	-	<u> </u>	<u> </u>	Х		Cup Rinse Flowmeter (with sensor)	Tokyo Keiso	
	Χ				Χ		EBR Flowmeters (with sensors)	Tokyo Keiso	Bi il I a
							Develop Cell #3	Size specific (200-300mm)	Divide by 2 to get # modules / cell
							DEVELOP CUPS CONTROLLERS		
	Χ				Χ		# Develop Cups	4	5 possible
Х						Х	Develop Cups (Upper)	PVC	
Х							Develop Cups (Lower)	PVC	
Х						Х	Baffle Disc (Upper)	PVC	
Х							Baffle Disc (Lower)	PVC	
X					Х		Type Of Chuck	PEEK	
_^_							Size Of Chuck	Substrate dependent	
				· ·			# Develop Nozzles/Cup	2	
	<b>L</b>			Х	L		Type Of Develop Nozzles	Slit-scan Nozzle	
	Х		Х		Х	Х	Type Of Develop Nozzles		
								Whole length/full diameter applicator	
Х	Х			Х	<u> </u>		Dimensions Of Develop Nozzles	slit	
Х	Χ			Х			# DI Water Nozzle	2	
				Х	Х		Type Of DI Water Nozzle	Teflon Tube	
Х	Х			Х			Dimensions Of DI Water Nozzle	OD/ID=6/4	
Χ	Х				Х		Type Of Develop Flowmeters	Tokyo Keiso	
Х	Х				Х		Sensors	Yes	
				Х		Х	Type Of DI Water Flow Meter (Stop)	Tokyo Keiso	
Х	Х			Х			Sensors	Yes	
X	X				Х		Type Of DI Water Flow Meter (Bottom)	Tokyo Keiso	
X	X			Х			Sensors	Yes	
				Α.			Develop Chemistry Degassing unit	Yes; 1 per nozzle	Miura / MJ-G204-P8
Х	Х					Х	EEW UNIT	res, i pei flozzie	Wildia / WJ-G204-F8
		1				1		0	
Х	Х		<u> </u>	X	1		# EEW Units	2	
Х	Х	<u> </u>		Х	<u> </u>		Type of EEW	EEW	
		Х	Х		Χ		Spin chuck	Wafer Vacuum suction	
Χ	Χ		Х				Vacuum Seal	AF10-22-8	
<u>_</u>	Х	Х	Х	<u> </u>	Х		Video measure sensor	3X2CA-PLC8-10M	
Х	L	LĪ	L	L	L		Syncro Belt	420-3M-6	
Χ		L	Х	L	L	Х	Photomicrosemnsor	EE-SX670	
	Х				Х		Photomicrosemnsor	EE-SX671	
		Х		Х			Solenoid Valve	V050E1-21-5W	
	Х	Ė	Х	Ė		Х	UV Lamp	L6190	
	X		Ė	Х	1	Ė	Quartz Fiber	A5875-70	
	<u> </u>	<del>                                     </del>	Х	<u> </u>	<del>                                     </del>		Stepping motor	PX243G01-01B	
	~	~	_^	~	~	Х	Stepping motor	PH566-A-A40	
	X	Х	<del>                                     </del>	Х	X	X	Stepping motor	RH-8-50-PM-SP-2	
	X		<u> </u>	L	Х				
	Х	<u> </u>		Х	<u> </u>		Motor driver	RD021M81R1	
		Х					Motor driver	CSD5814VN	
Х	Х	<u> </u>	<u> </u>	Х	Х		Motor Driver	RD021M8R56	
							POST EXPOSURE BAKE PLATES		
			Х	Х			# Plates	6	
								3 P-RHP (300mm) and 3 P-	
Х	Х	1	l	Х	Х		Type Of Plates	SRHP(200mm)	
X							Heater	Heat Pipe w/ integrated cooling arm	
X						Ė	Proximity Distance	Ceramic.Balls, Dia=3/32"	
X		$\vdash$		Х	Х		Type Of TCU	PID Controls	
X		<del>                                     </del>	l —	_^	X		Accuracy Of TCU	+/-0.2deg	
X			<del>                                     </del>	<del>                                     </del>	X		Temperature Sensor	TC	
	1	1	- V		_^		Location	see drawing	
		_	Х	Х	_	_	COOL PLATES	ooo drawing	
								2	
	1		Х	X	1		# Plates	Cooling Dista	
Χ	Χ		l	Х	Χ	Χ	Type Of Plates	Cooling Plate	

	1	1				1	Critical H/W&S/W Commonality Component	Description/quantity	Part#
	w	īŧ		Operation			Critical H/W&S/W Commonanty Component	Description/quantity	Fait#
Defects	Process	Reliability	ť	ati	Recipe				
efe	8	eje	Safety	per	Sci	PM			
	Ē	Ř	κ̈	ō	Ř		0 5 6		
Х							Cooling Pipe1	2	
Х						Х	Cooling Pipe 2	2	
Х							Proximity Distance	Ceramic.Balls, Dia=3/32"	
Х						Х	Type Of TCU	PID Controls	
Х				Х	Х		Accuracy Of TCU	+/-0.2deg	
Х					Χ		Location	see drawing	
Х					Χ		LPAH Vacuum System	Yes for ACP	
							CHEMICAL DELIVERY SYSTEM		
Х			Χ	Χ	Χ	Х	System Name	DNS	
								Controlled from Mainbody - Nozzle	
Х			Χ	Х	Х	Х	Temperature Control Of Resist Lines	tip	
							Placement	Vertical	
							Chemical containers	Nowpaks(4 Liter)	
							Source Bottles/pump	1/pump; no bottle switching	
Х				Х			Type Of Pumps	PDS-105G-KV5C	
Х		Х			Х		Chemical supply	Bulk	Canister Cabinet req'd
	Х						Drain Configuration	Direct gravity to fac line	Pump to Catch-can Fab 1?
		Х			Х		Interface signal for bulk chemical supply	Yes	
Х	Х	Х			Х		Quick-change Filters	PALL EZD-2; 0.04um	
							ENVIRONMENTAL FILTERS		
Х	Х		Х	Х	Х		Temperature Control	Yes	ntegrated:each spin module(coat & dev
Х	Х				Х	Х	Humidity Control	Yes	Integrated; each coat module
							Spike Control	No	
Х				Х			Amine Sensor ports	Yes	In-line
Х				Х			Environmental Filters	Yes	ESI Vaporsorb II
				- 11			ALARM SETTINGS - LAYOUT		
Х				Х		Х	Light Tower	Yes	Cypress 4 color -remote connection
X							EMO	Yes	71
							Interlocks	Yes	
				Х			Remote Panel	Yes	
		Х	Х				Orientation	R-L	
			7.				CABINETS	L x W x H (mm)	
		1		Х			SC Cabinet	1000 x 780 x 1750	Able to be remotely located
	1	<del>                                     </del>		X			SD Cabinet	1300 x 780 x 1750	Able to be remotely located
	1	<del>                                     </del>		Ĥ			Source Bottle Cabinet	NONE	All 4L Nowpacks in Mainbody
				Х			IF-B ACU	700x800x2000	Able to be remotely located
-	1	1		X	-		ETU Controller Cabinet	540x780x1750	Able to be remotely located
-	1	1		X	-		Contoller Cabinet	860 x 780 x 1750	Able to be remotely located
-	1	1		X	-		Power Box	900 x 1400 x 1910	Able to be remotely located
		1		^		1	1. 0 20	000 X 1 100 X 1010	, who to be formatory located