

AMAT Mirra CMP System Inspection

Items	Description	Inspection Result
System OEM Serial No.	AMAT Serial No.	379312
System Vintage	Manufacturing Date	1999
Wafer Specification	Wafer Size	200mm
	Wafer Shape	JMF
Application Information	Application	Oxide
	System	DRY IN/ DRY OUT
Platen and Head Options	Polishing Head	TITAN I HEAD(4ea)
	Retaining Ring	AEP(4ea)
	Platen wafer Loss sensor	Single Type
	Platen Temperature Control	None
	UPA	All UPA Assy modified
Pad Conditioner	Pad Conditioner Type	DDF-3
	Pad Conditioner Head Type	Cylinder Type
	Pad Conditioner Disk Holder Type	Magnetic Snap on
Slurry Delivery options	Slurry Delivery	2 Slurries
	Slurry Delivery Module A(Pump Type)	STD Drawer w/ NT Type(3EA)
	Slurry Delivery Module B(Pump Type)	NONE
	Slurry Flow Meters	NONE
	Slurry Dispense Arm	Extended Rinse arm
Consumed Process Materials	Platen 1 Pad	
	Platen 2 Pad	
	Platen 3 Pad	
	Head Retainer Ring	AEP
	Pad Conditioner Disk	ABT
Misc. Hardware Options	CPU	Not Confirmed
	Cleaner Type	On-Trak
	Megasonics	N/A
	Robot Type	Local Modified
	Robot Blade Type	Dualside

	Cassette Tub	Yes
	Installation type	Through the wall
	In Situ Removal Rate Monitor	Not Confirmed
	In Line Metrology	N/A
Cleaner Options	Cleaner Type	On-Trak
	Cleaner Model	SYNERGY INTEGRATED
	Cleaner Serial No.	47021
	Chemicals	HF(BR1) / SC1(BR2)
	Chemical Delivery	N/A
FABS Options	FABS Type	Basic FABS 8"
	FABS Model	FABS-202
	FABS Model No.	1VRR8150-W01-005
	FABS Serial No.	SA00357
	FABS Robot Blade	NONE
	Light Curtain Option	Yes
Factory Interface Options	SECS GEM Interface	Yes
Calibrationn tool	Special Kit for Maintenace	N/A
	Down force cal	N/A
	Head rebuild kit	N/A
	RPM 3 Cal Kits	N/A
	Fabs Lap Top Computer	N/A
System s/w Status	Mirra S/W	
	Cleaner S/W	
	Fabs S/W	
System Safety Equipment	Red Turn to release EMO Button	STD
	EMO Guard Ring	Yes
	System Labels	English/Korean
	Earthquake Brackets	None
	LOTO Disconnect on Polisher	Not Applicable
	Smoke Detector	Yes
Electrical Requirements	Line Frequency	50/60 HZ
	Line Voltage	200~230V
	Delta Connection	Yes
	Power Lamp	Green
	Power Connected Lamp	No

	Circuit Breaker	200A
	AC Outlet Box	100
	Configurable IO	No
Umbilicals	Polisher to Controller Cable	
	Controller to Monitor Cable	
	Slurry System Interface Cable	
Factory Hookup	Upper Exhaust	STD
	Lower Exhaust	None
	Upper Exhaust Connection	8 Inch
	Drain Manifold	1Drain
	Drain Adapter	
User Interface	Gray Area	1 Monitor
	Cleanroom	1 Monitor
	Class 1 Cart for 1 Monitor	1
	Class 1 Cart for 2 Monitors	0
	Class 100 Cart for 2 Monitors	0
	Stainless Cart	1
	Mouse or Trackball	PC Mouse
	Printer	None
	Hard Disk back up	No
Polisher/Fabs Light Tower	Polisher Tower Mounting Type	4 Lights
	Polisher Tower No of Colors	4 Colors
	Polisher Tower Clolors Sequence	RYGB
Additonal Items	Additional Heads	N/A
	Additional Cassettes	N/A
	Additional Cassettes Qty	N/A
	Additional Pad Conditioner Head	N/A
	Additional Retaining Ring Qty	N/A
	Diamond Disks	N/A
	Diamond Disks Qty	N/A

Remark
Mirra Integrated(with Lam Cleaner)
built in Head w/ used(not New)
Local Modified
Local Modified
A & B
Modified w/ NT Dispense Module
No Controller / need confirm
KORO Robot

w/o Cassette Tray

need Confirm

Open Cassette Type

need Confirm

[illegible]

[illegible]

[illegible]

[illegible]