System Configuration ***CMP MIRRA 3400***

Wafer size **200mm**
Purpose **(CMP) Chemical Mechanical Polishing**
Supplier **AMAT**
System name (be exact) **COPPER MIRRA MESA WITH SMIF FAB**
Detail system requirment **MIRRA MESA CMP SYSTEM FOR COPPER POLISHING**
Basic MIRRA System including:

Process		Copper CMP
Tool type		Mirra Mesa with SMIF FAB
HSMS/Serial		HSMS, SECS II - GEM interface
Hardisk (SCSI/SSD)		RAID 3 Bay HDD (SSD)
Software	System OS	Window NT
	Polisher Software Ver	NA
	Optical endpoint	NA
	Cleaner Software Ver	NA
	Main board	Pentium III 400MHZ 128MB
Mirra Hardware configuration	Pad Conditioner (X3)	PC Base arm hub
		DDF3 Head
		Standard Universal Holder
		Clear Pad Conditioner arm Cover
	Platen	Standard platen, include refurbishment
	HCLU (X1)	Standard HCLU, include refurbishment
	Robot (X1)	Robot Mirra (Wet Robot), include refurbishment
	Cross	Kollmorgen head rotation Motor (X4), NSK replacement
		Wafer Loss Sensor Assembly (X4)
	ISRM	Legacy for Platen 1,2 3
	UPA	Upper Pneumatic Assembly (Regulator) / SMC Upper Pneumatic Assembly
		E Chain Upper Polisher Electrical/Pneumatics / Waterfall design Upper Polisher Electrical/Pneumatics
		3 Port Rotary Union include refurbishment
	Head	Provide with extra cost
	Slurry Delivery	Slurry line setup [4 delivery lines], Platen1 & 2 (line1), Platen3 (line2 and 3 and 4)
		-Extended rinse slurry dispense arm (4 slurry lines)
		peristaltic pump
	Controller	* Start/Stop Button on Controller
		* Smoke detector for Controller
		* 3 Poles breaker
		* 200 - 230 VAC PS
		* 100 VAC Convenience outlet
		Separate controller with 30 feets umbilicals
	Miscellaneous	
		Opaque skins for full machine
		PC Workstation flat panel (both cleanroom area & Gray Area)
		Track ball Keyboard for Bay Area and Chase side Area
		Through the wall configuration
		* EMO button, Blank label, CE compliant
		* Guard rings on all EMO Buttons
		* CE certification
		* English safety labels
		* Drain one line
		* Drip Pan
		* 8" Upper Exhaust Flange
		* Lower Exhaust with main exit by the top
		* Single spray Gun. Clear window in System skin.
Mesa Hardware Configuration	Megasonic	Megasonic Generator
		Megasonic Transducer Plate (New)
		Megasonic tank includes gasket, rollers replacement
		Megasonic Orion Heater includes refurbishment
		Megasonic Pump includes refurbishment
		Chemical Vessel setup (x2)
	Brush Unit 1 and 2	Chemical Vessel setup
		Brush open/close assembly (Zaytran - Fixed brush gap type)
	SRD	SRD module(Single cyclinder actuator for SRD cover)
	Output	Output module
	Mini Environment	With additional Gigapleat filter (type 4011 and 4012)
SMIF Fab Hardware Configuration	SMIF	3 SMIF port stations
		SMIF Fab with Mini Environment
		With additional Gigapleat filter (type 4011 and 4012)