Wafer Size	200 mm		
Purpose	CMP Chemical Mechanical Polishing		
System Name	Mirra Mesa with SMIF FAB		
Deatailed System	MIRRA MESA CMP SYSTEM FOR OXIDE POLISHING		
Basic Mirra System including:			
Process	Oxide CMP		
Tool type	Mirra Mesa with SMIF FAB		
HSMS/Serial		HSMS, SECS II - GEM interface	
Hardisk (SCSI/SS	RAID 2 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	Teflon coated platen with Platen shield
		HCLU (X1)	Standard HCLU
		Robot (X1)	Wet robot with long blade
		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
			Waterfall design Upper Polisher Electrical/Pneumatics
			3 Port Rotary Union include refurbishment
		Head	Standard Titan I Head

	Slurry Delivery	Slurry line setup [2 delivery lines], Platen1 & 2 (line1), Platen3 (line2)
		-Extended rinse slurry dispense arm (2 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	Transparent skins for full machine
		* 2 sets of keyboard and mouse (PS2 type) with KVM switch system
		Through the wall configuration
		* EMO button, Blank label, CE compliant
		* Guard rings on all EMO Buttons
		* English safety labels
		* Drain 4 line system
		* Drip Pan
		* 8" Upper Exhaust Flange
		* Lower Exhaust with main exit by the top
		* Single spray Gun. Clear window in System skin.
Mesa	**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 for both Brush 1 & 2
		Brush open/close assembly (Zaytran - Fixed brush gap type)
	SRD	SRD module with lamp
	Output	Separate Output module and SRD module Exhaust
SMIF Fab Hardware Configuration	**SMIF**	3 SMIF port stations
		SMIF Fab with Mini Environment
		Ceramic robot blade with filter
		Patlite 4 color Light tower with buzzer (Red, Green, White, Yellow)