

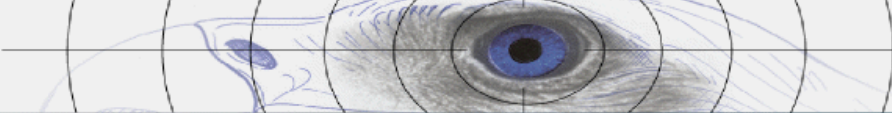
Equipmentlist as of may 2007

Department	Tool	Vendor	Type
Photolithography (Front End)	mask aligner	Electronic Vision Group	AL6
	production mask aligner	SUSS Microtech	MA150CC
	resist coater/developer, track system	Dai Nippon Screen	SKW-636BVP
	resist coater, semiautomatic	Convac	CPSII
	developer, semiautomatic	Convac	CTP5
	mask cleaner	Ultratech	608A
	linewidth measurement	Leitz	LIS/MPV-CD
	3D measurement system	Nikon	VMR-3020
	back side alignment probe	EVG	TBM 7
resist coater, semiautomatic	Süss	Gyrset RC8	
Photolithography (Back End)	mask aligner	Electronic Vision Group	AL4
	mask aligner	SUSS Microtech	MA6/BA6
	resist coater, semiautomatic	Convac	CPSII
	developer, semiautomatic	Convac	CTP5
	mask cleaner	SSEC	156
	oven	Heraeus	T-5050EK
	HMDS oven	IMTEC	Star2001
	Furnace & LPCVD	oxidation (wet & dry)	Centrotherm
diffusion (implant drive in)		Centrotherm	E1200 HT-210-6
annealing		Centrotherm	E1200 HT-210-6
high temp annealing post-bonding		Thermco	601
doping, POCl ₃		Centrotherm	E1200 HT-210-6
LPCVD TEOS		Centrotherm	E2400 HT-210-6
LPCVD LTO		Centrotherm	E1200 HT-210-6
LPCVD poly silicon undoped		Centrotherm	E2400 HT-210-6
LPCVD poly silicon in- situ doped		Centrotherm	E2400 HT-210-6
LPCVD nitride		Centrotherm	E1200 HT-210-6
LPCVD nitride (low- stress)		Centrotherm	E2400 HT-210-6

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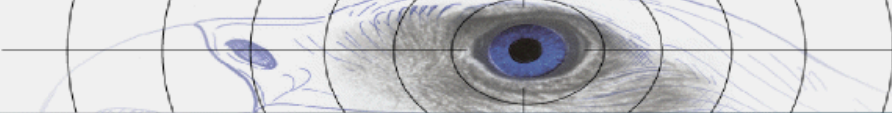


	film thickness, Ellipsometer	Plasmos	SD2300
	film thickness, Interferometer	Zeiss	Axiospeed/MCS400
	particle counter	Tencor	Surfscan 4500
Wafer Bonding	wafer bonder (anodic / SDB)	SUSS Microtech	SB6
	wafer bonder (anodic / SDB)	home build	mark-1
Dry Etching	RIE etcher, dielectrics	STS	Multiplex
	RIE etcher, aluminum, poly Si	STS	Multiplex
	ICP/DRIE etcher (Bosch process)	STS	ICP/Multiplex
	ICP/DRIE etcher (Bosch & Cryo)	Alcatel	601E
	ICP/DRIE etcher (dielectrics, poly Si)	Alcatel	601E
	ion milling etcher, noble metals (Au, Pt)	STS	340PC
wet etching & cleaning	BOE oxide etch bath (doped/undoped)	Arias	CT1
	KOH silicon etch bath	Arias	CT2
	TMAH silicon etch bath	Arias	CT2
	aluminum etch bath	Arias	CT3
	poly Si etch bath	Arias	CT4
	silicon nitride etch bath	Arias	CT5
	piranha clean bath	Arias	CT6
	SC1 clean bath	Arias	CT7
	SC2 clean bath	Arias	CT8
	HF dip bath	Arias	CT9
	HF 50% etch bath	Arias	CT10
	HF gas etcher	home build	
	resist strip solvent bath	Arias	CT11
	oxygen barrel resist stripper	Tepla	300M
	oxygen barrel resist stripper	Tepla	400M
	oxygen downstream asher	MTi	AfterGlo
rinsers/dryer	rinsers/dryer	FSI	Phoenix
	Semitool	SRD860F	
rinsers/dryer (anti-	FSI	YieldUp 1000	

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stiction
IPA/STGD)

Metallization / PVD	sputterer, Al, AlSiTi, WTi	MRC	643
	sputterer, Au, Pt, Cr, Ti, Ta, Al, SnO ₂ , TiN, Cu	Balzers/Ardenne	LA440S
	e-beam evaporation	Leibold-Heraeus	L560E
	XRF thickness probe resistivity probe (4-point)	Röntgenanalytik Veeco	Eagle II µProbe FPP5000

Electroplating	cup plater 1 (Au, Au- alloys)	IMI	EPM149
	cup plater 2 (Ni, FeNi)	IMI	EPM149

PECVD deposition	PECVD oxide/nitride (front end)	STS	Multiplex
	PECVD oxide/nitride (back end)	STS	Multiplex
	stress measurement gauge	E&H	MX 203-6

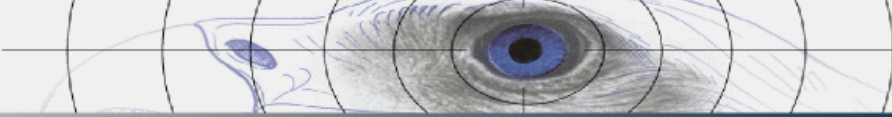
Test & Inspection	3D measurement system	Nikon	VMR-3020
	wafer geometry gauge	E&H	MX 203-6
	wafer prober (electrical test)	Süss	PSM6
	wafer prober (electrical test)	Süss	POM6
	CV probe	HP	
	step height probe	KLA-Tencor	Alphastep 200
	SEM	Hitachi	
	confocal laser-scan microscope	Zeiss	LSM
	optical inspection station	Leitz	LIS
	membrane thickness	Nikon	DigiMikro 501
	optical-surface profiler	UBM	3-D
particle counter	Tencor	Surfscan 4500	

Dicing, Packaging, CMP	wafer saw	Kulicke&Soffa	KS780
	wire bonder (ball-wedge)	WestBond	7700A
	wire bonder (wedge- wedge)	WestBond	7400B
	pull tester	WestBond	70PT-M
	die bonder (eutectic)	WestBond	7200AB
	die bonder (epoxy)	WestBond	7200AR

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encapsulation
CMP machine

Logitech

PM5

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