



# Microfabrication Equipment List

LAST UPDATE: FEBRUARY 2024

CATEGORY	DESCRIPTION	MANUFACTURER	MODEL #
Thin film deposition	4 inch magnetron sputtering system	Semicore	SC Triaxis 6X4 sputter
Thin film deposition	Box coater	Balzer	BAP800
Thin film deposition	200mm reactive sputtering system	Evatec	Radiance
Thin film deposition	Black gold deposition system	INO	
Thin film deposition	P.E.C.V.D.(plasma enhanced chemical vapor deposition )	Plasma Therm Inc	790 series
Thin film deposition	150mm Reactive sputtering system	CVC Product	308414-901
Dry etching	Uncooled plasma asher	Anatech Ltd	SCE 600 Quartz 10
Dry etching	Fluorine R.I.E (reactive ion etching)	Plasma Therm	790 series
Dry etching	Fluorine 10 inch square R.I.E. (reactive ion etching)	Plasma therm	790 series
Dry etching	Cooled plasma asher	Anatech Ltd	SCE 600 Quartz 10
Dry etching	Chlorine R.I.E (reactive ion etching)	Plasma therm	790 series
Dry etching	Plasma cleaner	March	PX-500
Test ans measurement	pressure datalogguer	Thyracont	VD85
Test ans measurement	Pressure gauge characterisation system	Huntington	EV-150
Test ans measurement	13 pts temperature characterization instrumented wafer		
Test ans measurement	Spectroscopic ellipsometer	J.A. Woollam	V-Vase
Test ans measurement	resistivity and TCR measurement system	INO	
Test ans measurement	Thin film mapper	Filmetrics	F50-HS
Test ans measurement	Probe station	Suss MicroTec	PM-8
Test ans measurement	portable particule counter	Met one	HHPC-2A
Test ans measurement	Probe station	Test force system	REL-4008
Test ans measurement	resistivity and TCR probe station	Signatone	QuadPro
Test ans measurement	PARTICULE COUNTER	Met one	3413
Test ans measurement	LEAK DETECTOR	Varian	VSMD301
Test ans measurement	MRV CHARACTERIZATION SYSTEM	INO	
Test ans measurement	E.D.S (ENERGY DISPERSIVE SPECTROSCOPY)	Oxford instrument	Inca
Test ans measurement	Stress measurement	KLA-Tencor	FLX 2320
Laboratory	Clean rooms	INO	
Laboratory	Testing lab	INO	
Packaging (back end)	Vacuum furnace	SST	3150
Packaging (back end)	Manual wirebonder	F&K delvotec	4522
Packaging (back end)	semi-automatic wirebonder	F&K delvotec	5632
Packaging (back end)	Flip chip bonder	Finetech	A4 (145)
Packaging (back end)	Dicing saw	Advanced Dicing Technologies (ADT)	7120
Packaging (back end)	Micromanipulator for opto-electronic assembly	Nanosystec	NanoWeld/Nano-Glue

## MICROFABRICATION EQUIPMENT LIST ( CONTINUED )

CATEGORY	DESCRIPTION	MANUFACTURER	MODEL #
Packaging (back end)	Pinching station	INO	gen V
Packaging (back end)	Flip chip bonder	Finetech	A9 sigma
Microfabrication (Front end)	Spray coater	Sonotek corporation	Exacta coat
Microfabrication (Front end)	Automatic developer system	Obducat	QS SH200 SM
Microfabrication (Front end)	Automatic photoresist spin coater	Obducat	QS SHV 200 SM
Microfabrication (Front end)	Manual spinner	Brewer Science - CEE	100 CB
Microfabrication (Front end)	Digital Materials Deposition Platform	Ceradrop	F-serie
Microfabrication (Front end)	I-line stepper	Canon	3000i4
Microfabrication (Front end)	Mask aligner	EV Group	EVG610
Environnemental chamber	Vacuum jar	Abbess Instruments and system INC	
Environnemental chamber	Dry box	Terra universal	
Environnemental chamber	Environnemental chamber 41 inch	Phytronix	
Environnemental chamber	Environnemental chamber 15 inch	INO	
Spectrometer	Spectrometer	Perkin Elmer	Lambda 950
Spectrometer	Spectrometer FTIR	Bruker Optics Ltd.	Vertex-70
Spectrometer	Visible spectrometer	Perkin Elmer	Lambda 19
Microscope	Digital microscope	Keyence	VHX
Microscope	Wafer inspection station	Olympus	MX61A
Microscope	Interferometric microscope	Nikon Canada inc	
Microscope	S.E.M. (secondary electron microscope)	HITACHI High-Technologies Canada Inc.	S-3400N
Microscope	Digital microscope	Keyence	VHX-1000
Microscope	Optical microscope	Nikon Canada inc	Eclipse L200ND
Profilometer	Confocal microscope	Olympus	OLS31-SU
Profilometer	Physical profilometer	Bruker Optics Ltd.	DXT-A

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