



CeNSE-IISc

Packaging and Systems Facility -PASF

Equipments and Tool List

PASF- Key Equipments & Tools List



Major Tools and Equipments				
SL:NO:	Tool no/SAP ID.	Tool Name	Model	Make
1	PASF001	MTI Precision CNC Dicing Machine	5410	MTI Corp
2	PASF002	Climatic chamber-Votsch - 1	VCL 7003	Votsch
3	PASF003	Climatic chamber-Votsch - 2	VCL 7003	Votsch
4	PASF004	SCS Parylene Deposition system	PS2010	Speciality Coating Systems
5	PASF005	Semi Automatic Wire bonder	HB16	TPT
6	PASF006	Laser Welding Machine	LW70AE	Miyatek
7	PASF007	Manual DC Probe Station	C Series	Everbeing
8	PASF008	Helium Leak Detector	L300TL7	Leybold
9	PASF009	Fibre Laser Marking Tool	LM-BT20W	Light Mechanics
10	PASF010	Automatic Dicing Saw	DAD3121	Disco
11	PASF011	Pneumatic Pressure calibrator 20bar	7250	Fluke
12	PASF012	Hydraulic Pressure calibrator	P3125	Fluke
13	PASF013	Hot Air Oven	DP-18702	Delta Power Controls
14	PASF014	Sand blasting Tool	922	Sirio
15	PASF015	High Power Plasma Cleaner	PDC002	Harrick Plasma
16	PASF016	Centrifuge	PR24	Remi
17	PASF017	Pneumatic Pressure calibrator 200bar	6275i	Fluke
18	PASF018	Climate & Humidity test Chamber	DY110C	ACS
19	PASF019	Chemical wet Bench	Local Designed and Procured	-----
20	PASF020	Soldering & Desoldering Station	S RX802 AS\845CR	Goot
21	PASF024	Flip Chip Bonder	Sigma Fine Placer	Fine Tech
22	PASF025	Wire Bonder	HB10	TPT
23	PASF021-TS20	Hydraulic Dead Weight Tester	P3215	Fluke



PASF- Design & Testing Services List

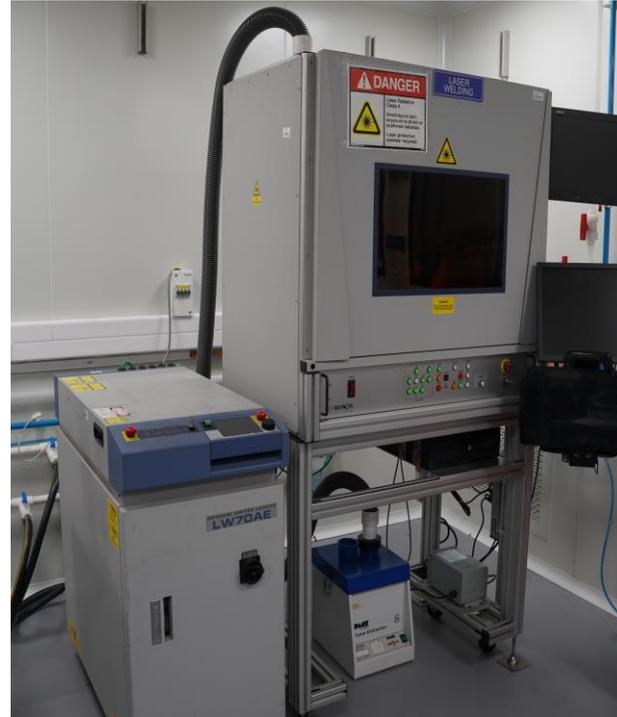


Design and Testing Services				
SL:NO:	Tool no/SAP ID.	Tool Name	Model	Make
24	PASF021-TS01	Insulation Tester	GPT9804	GW Instek
25	PASF021-TS02	Milohm meter	GOM802	GW Instek
26	PASF021-TS03	Function Generator	AFG3081	GW Instek
27	PASF021-TS04	Digital Storage oscilloscope 100MHZ	GDS2102	Instek
28	PASF021-TS05	DC power Supply 12V30A	SPS123D	GW Instek
29	PASF021-TS06	LCR meter	LCR819	GW Instek
30	PASF021-TS07	DC power Supply 30V,3A	SPS606	GW Instek
31	PASF021-TS08	Digital Multimeter	GDM8261A	GW Instek
32	PASF021-TS09	Vacuum Calibrator	D35614	Pfeiffer
33	PASF021-TS10	Differential Calibrator	249T	Buden Berg
34	PASF021-TS11	Barometric Calibrator	BC-8	Ultrahighvac
35	PASF021-TS12	Oil Filling System	UHVOFS01	Ultrahighvac
36	PASF021-TS13	Ultra Probe Sonicator	Lab500	Next Gen Lab
37	PASF021-TS14	Shock tube 1	Local Designed and Procured	-----
38	PASF021-TS15	Shock tube 2	Local Designed and Procured	-----
39	PASF021-TS16	CNC PCB Routing	CM-PCB3020	ETS
40	PASF021-TS17	Profile Projector	VL360	Opticom
41	PASF021-TS18	Hot plate	MC02	Tarson
42	PASF022-DS-01	Design Services1- PCB Design and Development	Altium 18.0	Altium
43	PASF022-DS-02	Design Service2 -Embedded Firmware	Emulators/ Programmers	STM/Keil/Arduino
44	PASF022-DS-03	Design Services 2- PCB Design and Development	Altium 18.0	Altium
45	PASF022-DS-04	Design Services4- Embedded Software	MSVC/VB/Python	Microsoft/Open Source
46	PASF022-DS-05	Design Services 3- PCB Design and Development	Altium 18.0	Altium
47	PASF022-DS-06	Design Services6-Mech Design & Development	CAD/CAM/CAE	Solid Works
48	PASF022-DS-07	DC power supply-1 GPS2303	GPS-2303	GW Instek
49	PASF022-DS-08	Digital multimeter-1 GDM 8261A	GDM8261A	GW Instek
50	PASF022-DS-09	Signal Generator	AM300	Rohde & Schwarz
51	PASF022-DS-10	Function Generator1 HP33120A	HP33120A	HP
52	PASF022-DS-11	DC power supply-2 GPS2303	GPS-2303	GW Instek
53	PASF022-DS-12	Digital multimeter-2 GDM 8261A	GDM8261A	GW Instek
54	PASF022-DS-13	Digital Storage Oscilloscope GW Instek	GDS-1102A-U	GW Instek
55	PASF022-DS-14	Source Monitor	SMU 2450	Keithley
56	PASF022-DS-15	Function Generator2 HP33120A	HP33120A	HP
57	PASF022-DS-16	LCR METER	TH2817B	Tonghui
58	PASF022-DS-06	3D Printer	X1-Carbon	Bambu Labs

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Dicing Machine upto
6" Wafer



Laser Welding Machine-
S.S/Kovar-50mm Dia & 0.3 mm
SS/0.7mm Depth



Semi Automatic Wire Bonders
Ball and Wedge Au & Al

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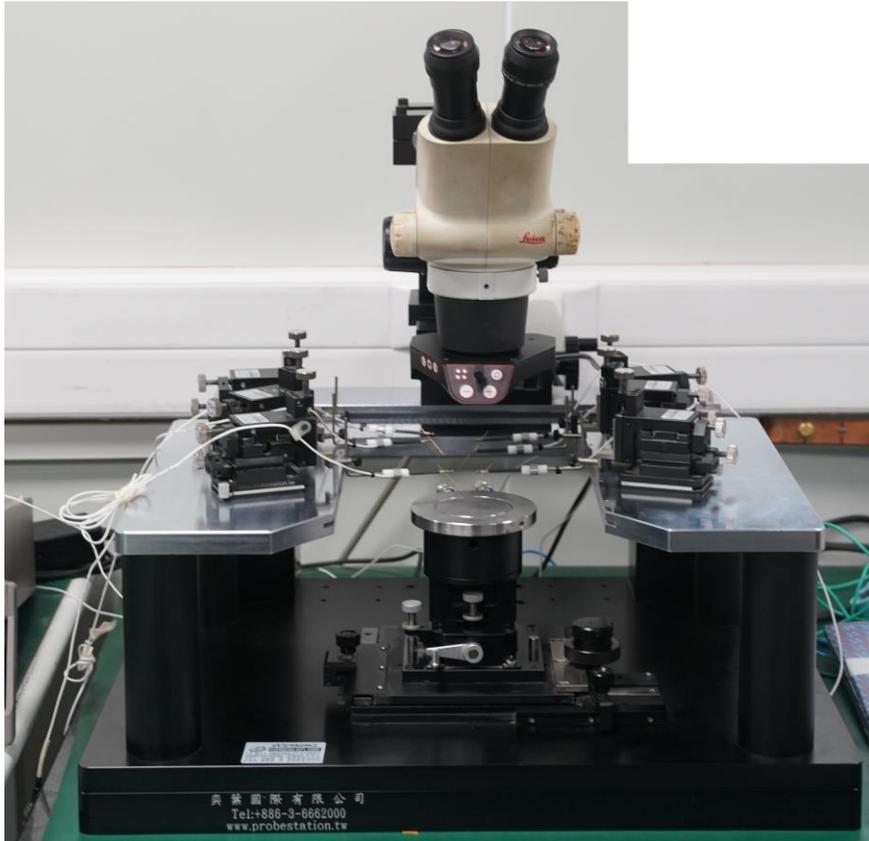
Temperature Chamber -
70°C to 180°C- Reliability
Testing



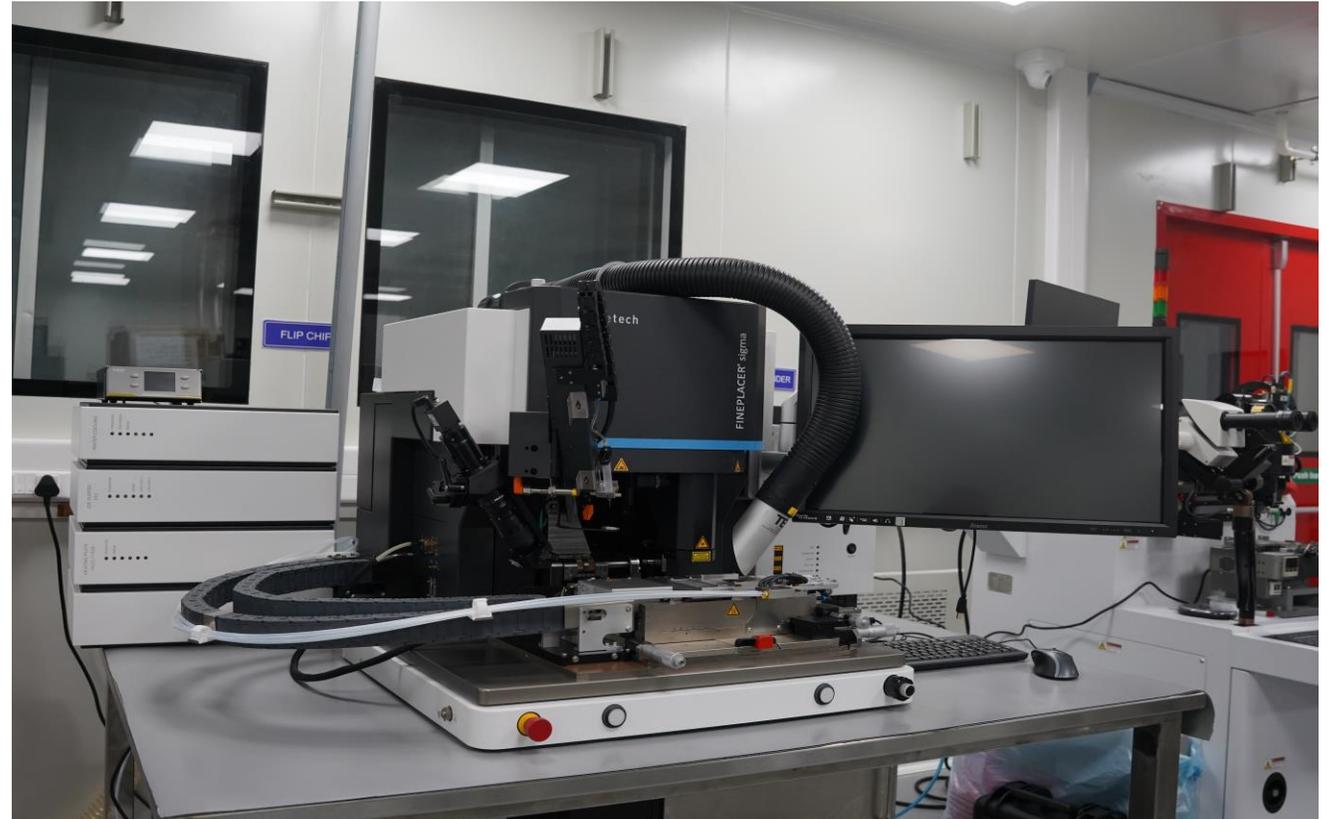
Parylene C Deposition
System- Fine Coating for
dielectric absorption,
moisture protection



Helium Leak Detector
5X10⁻¹² bar- Fine Leak



DC Probe Station- Electrical
Characterisation



Flip Chip Bonder-
Thermocompression Fine pitch
Bonding & other applications

PASF- Key Equipments & Tools



Sand Blasting System-
Surface Modification



Plasma Cleaner-
Contamination removal and
Surface Treatment



Centrifuge- Material
Separation



PASF- Other Equipments

1. Hot Air Oven
2. Fibre Laser Marking Tool
3. Pneumatic Pressure Calibrator 20 bar and 200 bar
4. High Power Plasma Cleaner
5. Hydraulic Pressure Calibrator
6. Vacuum Calibrator
7. Barometric Calibrator
8. Manual Soldering and Desoldering Station
9. 3D Printer PLA & Carbon Fiber
10. Oscilloscopes
11. DC Power Supplies
12. Function Generators
13. Oil Filling System
14. LCR Meters
15. Aerosol PM Counter
16. 6.5 Digit DMM
17. Function Generators
18. Insulation Tester
19. Manual Dicing Machine
20. Profile Projector