

flexDEP



THE MOST POPULAR FLEXIBLE THIN FILM DEPOSITION PLATFORM AVAILABLE

The flexDEP Physical Vapour Deposition (PVD) system is our most popular platform due to the flexibility of the sources available.

Built for performance, flexibility and ease of use, it is the platform of choice for R&D applications and open access facilities.



Why flexDEP



Compact footprint with maximum flexibility



High-vacuum performance with rapid pump-down



Manual or fully automated operation



Intuitive software with 22" touchscreen control system



Engineered for minimal outgassing & stability



Designed & built in Australia with 2-year warranty

Key Applications

- ✓ Quantum & Photonic Devices
- ✓ Wearable electronics
- ✓ Photovoltaics & perovskite solar cells
- ✓ OLEDs, OPVs & OFETs
- ✓ Thin-film research & nanofabrication

DESIGNED FOR *innovation*

Delivering reliable, high-quality thin films for cutting-edge technologies.



GET IN TOUCH WITH US:

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TECHNICAL SPECIFICATIONS

Substrate Size & Uniformity • 6" (150mm) Diameter max – 8" (200mm) Optional • +/- 5% uniformity	Mass Flow Controllers (Sputtering) • Ar plus up to 5x reactive gases (O2, N2..etc)
Base Pressure • $<5 \times 10^{-7}$ mbar (3.75×10^{-7} Torr)	Deposition Control • Quartz Crystal monitor for either film monitoring or thickness control with PID loop • Optical Emission Spectroscopy
Deposition Source Types • High Temperature Thermal Boat/Crucibles • Low Temperature Organics • 2"/3"/4" Magnetron Sputtering (DC, RF, Pulsed DC, HiPIMS) • E-Beam Evaporation (multi-pocket) • Ion Source	Substrate Heating/Cooling • Heating to 800°C • Cooling to room temperature or optional -5°C
Typical Materials • High Temperature Thermal = Au, Ag, Cu, Cr, Al...etc • Organics = Small molecules ALQ3, C60...etc • Sputtering = Metals, Oxides or Nitrides • E-Beam = Ti, Pt, W, SiO2...etc	Vacuum Pumping System • 450l/s Turbomolecular pump with market leading pumping speeds for light gases • Optional oil sealed or oil free scroll backing pump
Warranty • 2 Years	Country of Manufacture • Australia

System Features



Optional Load-lock available



Recipe control for accurate & repeatable films



Automatic film thickness and pressure control options



Comprehensive safety features

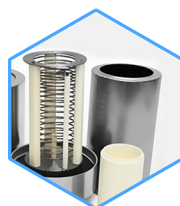
Built for Performance & Reliability

All systems are engineered & assembled in Sydney, Australia to AS3000 electrical & safety standards using industrial PLC controllers, ensuring quality, durability & safety.

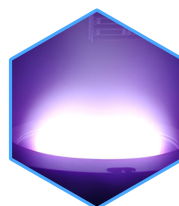
Deposition Techniques



High Temp Thermal



Low Temp Organic



Sputtering



E-Beam