

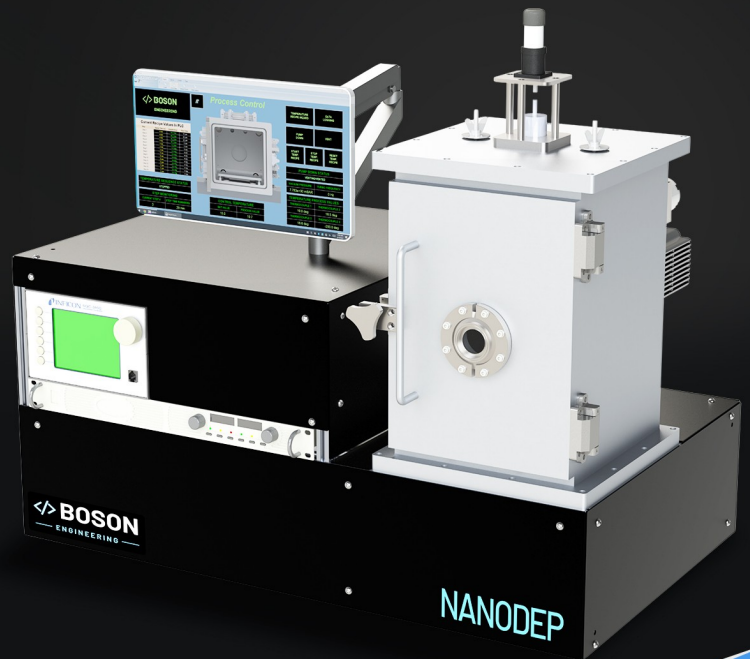
nanoDEP

 **BOSON**
— ENGINEERING —

NEXT-GEN THIN FILM DEPOSITION – MADE SIMPLE

The nanoDEP Physical Vapour Deposition (PVD) system is a compact, cost-effective high-vacuum evaporator designed for metal, oxide, nitride and organic deposition.

Built for performance, ease of use, and reliability – perfect for research labs, universities, and advanced manufacturing.



Why nanoDEP?



Compact footprint - ideal for labs with limited space



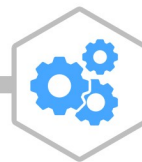
High-vacuum performance with rapid pump-down



Manual or fully automated operation



Intuitive software with 15" touchscreen control system



Engineered for minimal outgassing & stability



Designed & built in Australia with 2-year warranty

Key Applications

- ✓ Quantum computing 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.

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**GET IN TOUCH
WITH US:**

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TECHNICAL SPECIFICATIONS

Substrate Size & Uniformity • 4" Diameter max or smaller pieces • +/- 5% uniformity across 4" Diameter substrate	Mass Flow Controllers (Sputtering) • Ar plus up to 2x reactive gases (O2, N2)
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
Deposition Source Types • High Temperature Thermal Boat/Crucibles (Max 3x) • Low Temperature Organics (Max 4x) • 2" Magnetron Sputtering (Max 3x, DC or RF)	Substrate Heating/Cooling • Heating to 500°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	Vacuum Pumping • 90l/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



One-touch automatic pump-down & vent



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