

METALLIFIER

RESEARCH GRADE
SPUTTER COATING SYSTEM



Applications

- Metal and Oxide thin film coatings
- Transparent conductive oxides
- Metal contacts to micro and nanoscale devices
- Nanotube and graphene catalyst deposition
- Optical coatings
- Process optimisation

Features

Developed at University of Cambridge to match the needs of a world-class research team

Simple, intuitive and safe PC based interface

Film thickness optimisation with six shuttered 4" sample holders

Sputter down orientation allows use of irregularly sized substrates

Up to four 4" magnetron sputter sources

Pulsed DC power for excellent film quality

Variable throw length

Reactive sputtering with O₂

Unlimited recipe steps

Automatic process pressure control

Recipe and user database

Sputter target history tracking for diagnostics

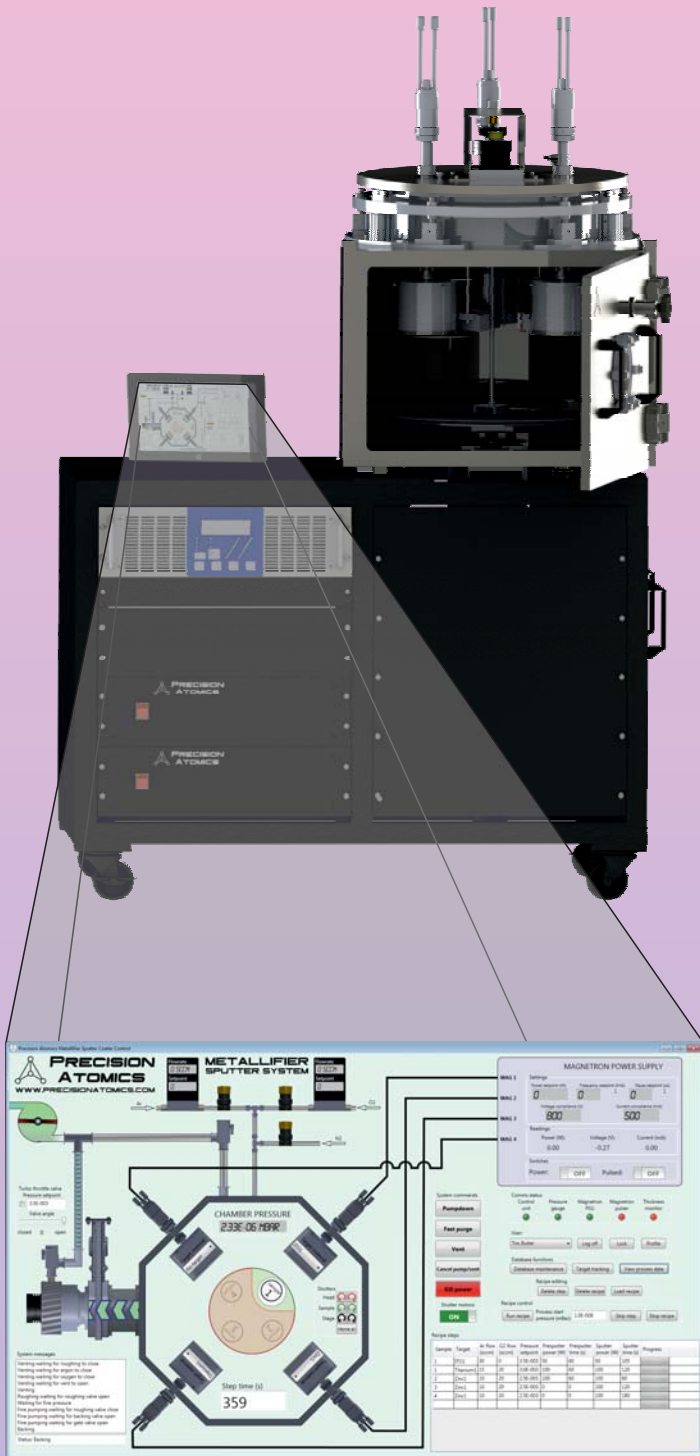
Continuous logging of process conditions

Completely dry system using scroll and turbo pumps

For more information visit:

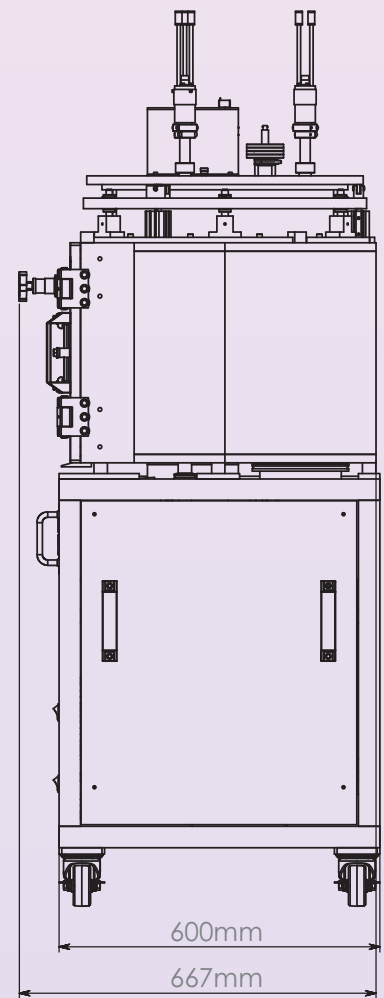
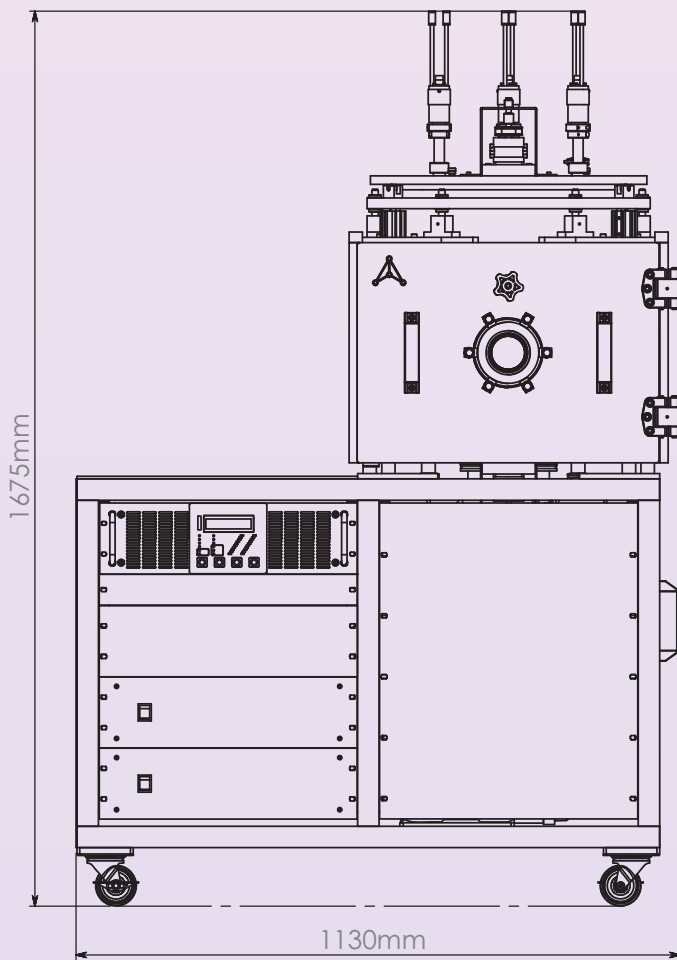
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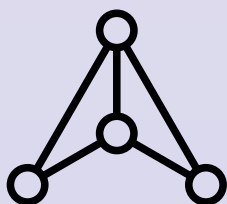
Intuitive interface

The Metallifier system provides a safe and intuitive environment for every level of user. Interlocked valves and the replacement of pumpdown and vent sequences with single-click operations means no system downtime due to user error. A multi-sample stage greatly simplifies film thickness optimisation experiments; unlimited recipe step entry and recall allows the production of complex multi-layer structures with just a few mouse clicks.



Specifications

Process chamber volume	110 litres, 'D' configuration
Process chamber material	304L Stainless Steel
Deposition sources	Up to four 4" Torus magnetrons, individually shuttered
Magnetron power	Pulsed DC
Sample stage positions	Six, holding wafers up to 4" diameter or sections thereof
Vacuum pumping	250 l/s turbo with 90 lpm scroll pump roughing/backing
Process gas	Ar, O2 with N2 optional
Process control	Mass flow control, PID pressure control, film thickness monitor
Process logging	Data logged to SQL database, target history tracking
System control	PC based HMI with safe valve operation
Recipe control	Unlimited steps with store and recall, step by thickness or time



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