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Find the *Oxford Applied Research MIG5* at our website: *Click HERE*

OXFORD APPLIED RESEARCH

Mini Ion Gun - MIG5

Sputter cleaning, etching. 2-5keV, 80µA

The MIG5

The MIG5 is a magnetically confined cold-cathode mini ion source, and can operate using very low gas flow rates. The source is ideal as a low-cost ion gun for cleaning or sputtering applications. It is simple to use and allows instant start-up for routine sample preparation.

The energy of the ions is set by the voltage on the anode, allowing operation in the energy 2-5 keV with variable gas flow. Ion current is a function of both gas flow and anode voltage, allowing a wide range of operating conditions to be adopted. Optionally, the gun can be supplied with focus and X, Y deflection facilities.



MIG5

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Applications

- Specimen cleaning, etching and coating
- Ion-beam specimen thinning
- Ion-beam sputter-coating
- Auger depth-profiling
- Reactive-ion etching

Features

- Beam energy 2 - 5keV
- Beam current up to 80µA
- Cold-cathode discharge
- Low gas flow
- Rugged construction
- Operation with reactive gases

Specification - MIG5

Mounting	NW35CF
Beam Energy	2 - 5keV
Beam Current	80µA max. (Argon)
Beam Divergence	variable (15° typical)
Gas Flow Rate	0.1 - 3sccm
Diameter	N/A
In-vacuum Length	108 mm or 120 mm with focus and X/Y deflection
Operation Temperature	Ambient

Options

- Focus and X/Y Deflection

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