

 *nu instruments*  
Instruments that work

**ATTOM<sup>®</sup>**

HIGH RESOLUTION ICP-MS



**ATTO M<sup>®</sup>**

**HIGH RESOLUTION  
ICP-MS**

The Nu AttoM<sup>®</sup> is a double-focusing, high-resolution magnetic sector mass spectrometer. The instrument is entirely purpose designed and built to provide the best performance and reliability coupled with flexibility and ease-of-use for high-precision and accurate elemental and isotope ratio analysis.

## Features

**Double-Focusing Mass Spectrometer with Low Noise Discrete Dynode Electron Multiplier Detection System**  
Faraday for large dynamic range

**Continuously Variable High Resolution Capabilities**  
From 300 to >10000 (10% valley definition)

**Fast Electrostatic Scanning/Jumping**  
Up to 40% of the mass range  
No mass discrimination effects

**Fully Laminated, Large Radius Magnet**  
High scan speed – m/z 6 to 250 to 6 in < 220 ms

**High Ionisation Efficiency ICP Source**  
Combined with a supersonic beam-sample interface

**Ground Potential Operation**  
Providing easy access for service and maintenance procedures

**State-of-the-Art Electronics**  
Purpose designed and built, with full monitoring of all instrument parameters and power supply status

**New Comprehensive and Easy-to-Use Software**  
Software upgrades are supplied, free of charge, with no time limit

**Small Footprint**

**Easy Access Sample Introduction System**  
Compatible with third party accessories, including laser ablation systems, autosamplers and other sample preparation devices

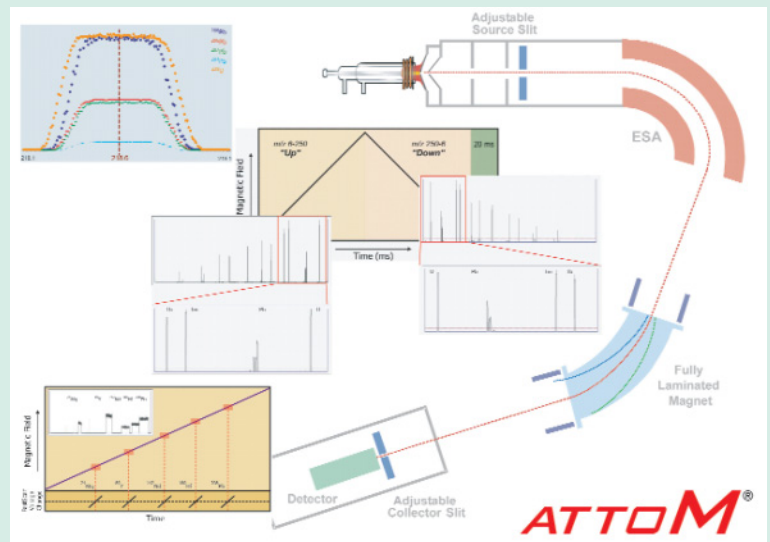
## Advanced Acquisition Technology

The unrivalled technology behind the Nu AttoM provides the flexibility for the analyst to choose between several data acquisition approaches.

The unparalleled FastScan technology allows the rapid switching between isotopes of interest without the necessity to change the magnetic field and/or acceleration voltage across a 40% relative mass range. It realises ultimate precision peak jumping acquisition with optimal duty times.

The fully laminated magnet allows fast magnetic scanning and two full mass range scans – one forward and one reverse – to be performed within <220 ms.

With the unsurpassed combination of FastScan and fast magnetic scanning, the integration time can be increased on selected isotopes during elemental analysis.



## High Resolution

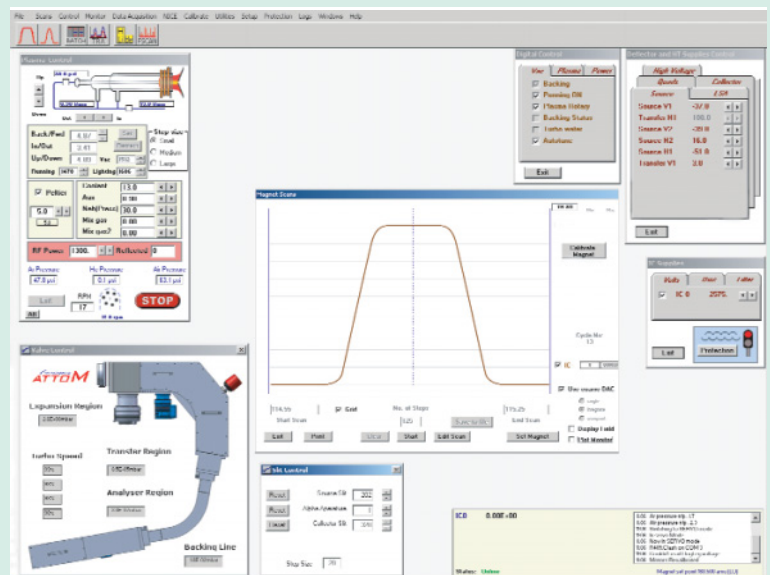
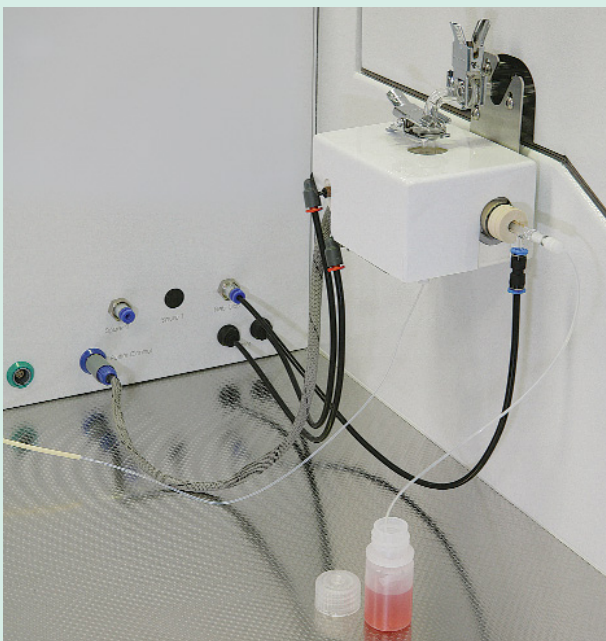
The Nu Instruments AttoM® uses three variable slit assemblies to provide resolutions from 300 to >10000. These slits are fully computer controlled and the slit parameters for different resolutions can be stored and accessed from within the operating software. The resolution can be optimised for specific applications and sensitivity does not have to be compromised at the expense of over-resolution.

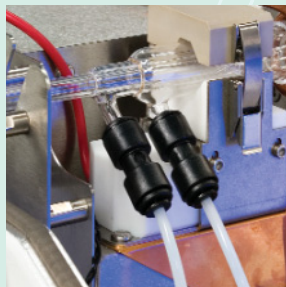
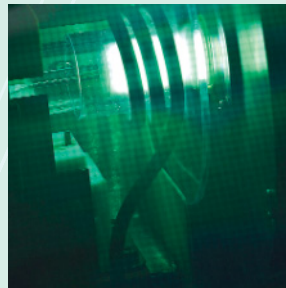
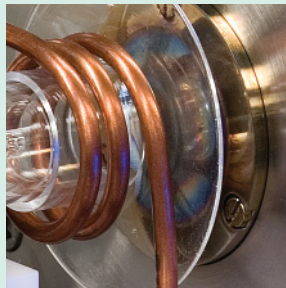
## Automation and Software

The AttoM® software provides full control of all instrument parameters. An intuitive working platform allows easy and efficient instrument tuning, parameter storage, sample analysis set up and data measurement.

## ICP Source and Sample Introduction

The ICP source uses a proprietary solid-state 1.6kW RF generator operating at 27.12MHz. The software performs RF matching and tuning of the torch box, providing simplicity and reliability of the matching system. Five mass flow controllers are fitted, providing highly stable plasma gas control with two mass flow controllers dedicated for use with alternative sample introduction systems such as laser ablation systems.





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