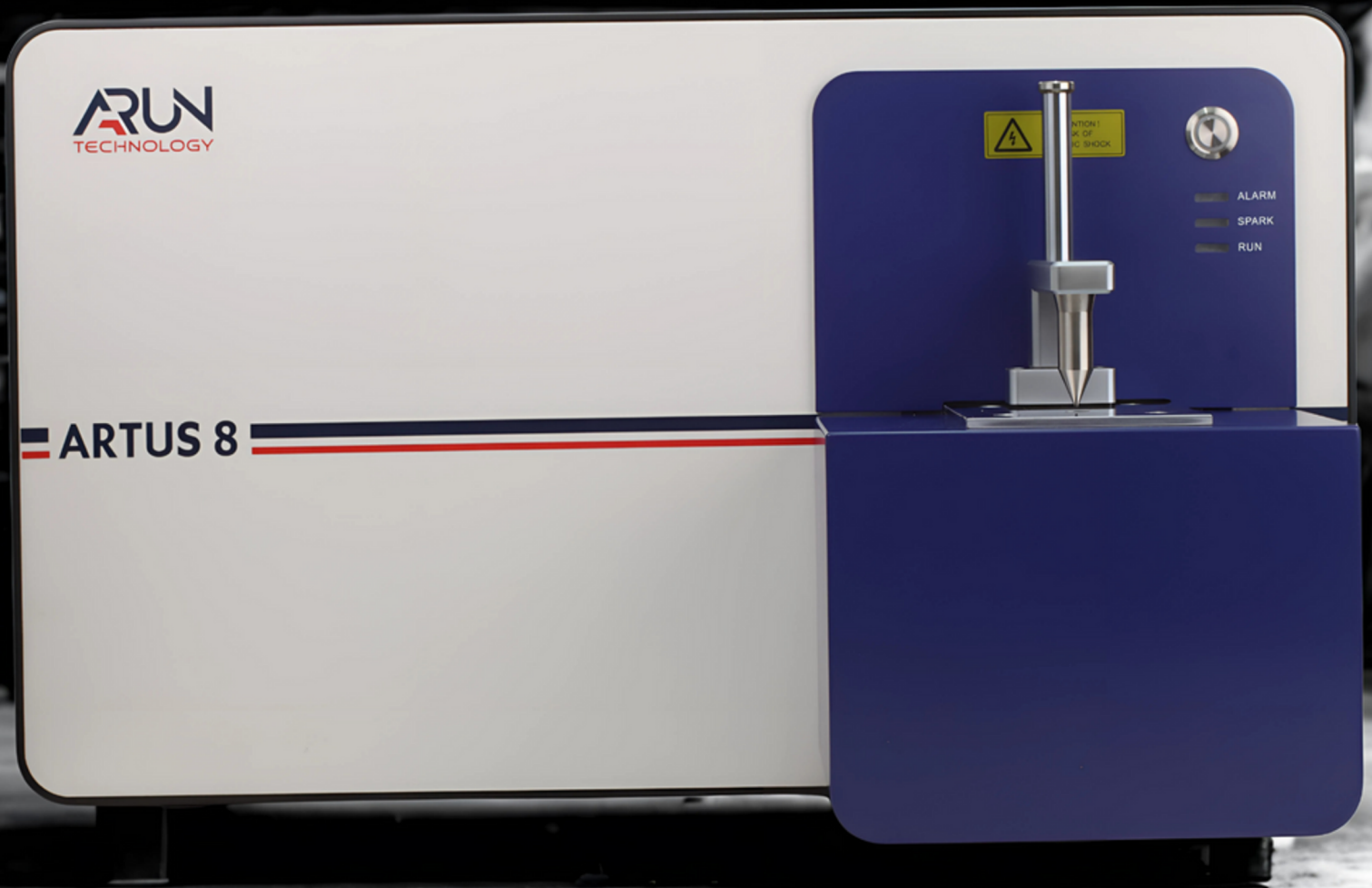


# ARTUS 8



Established 1987

**ARUN**  
**TECHNOLOGY**  
MADE TO MEASURE

# ARTUS 8 (OES)

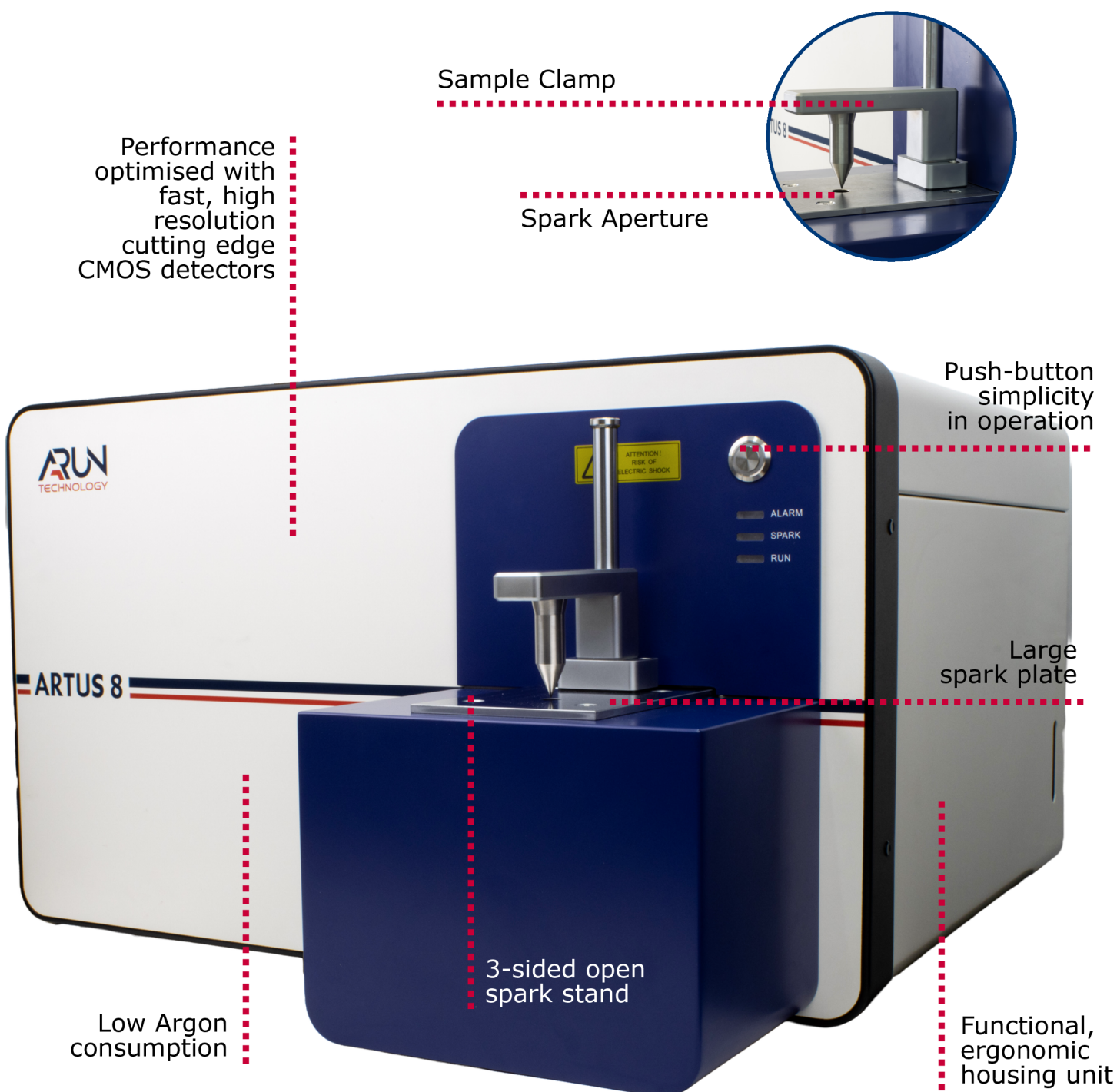
## HIGH PERFORMING OES METAL ANALYSER

The ARTUS 8 fulfils the requirement of providing fast, precise and accurate analyses. It is one of the most powerful and reliable spectrometers on the market, offering a bespoke range of analytical programs including steels, aluminium, copper, and other alloys. It offers the latest CMOS detector technology, providing accurate results with high repeatability.



# ARTUS 8 (OES)

"HIGH-PERFORMANCE OES METAL ANALYSIS WITH FAST, PRECISE, AND REPEATABLE RESULTS."



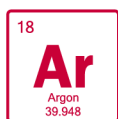


# PRODUCT SPECIFICATIONS



## LARGE SPARK PLATE FOR CONTINUOUS, STABLE ANALYSIS

The ARTUS 8 is equipped with a generously sized, 3-sided open spark stand designed for easy sample placement and secure positioning. Featuring a corrosion-resistant surface and an XY-sample clamp, it ensures consistent sample alignment and reliable results. Its robust, heat-dissipating construction allows for continuous 24-hour operation, delivering stable, uninterrupted analysis even in high-throughput environments.



## LOW ARGON CONSUMPTION FOR EFFICIENT OPERATION

The ARTUS 8 is engineered to minimise argon use, consuming just 5 L/min during burns, reduced to 0.5 L/min in standby. In extended idle periods, it enters sleep mode, using only 0.1 L/min for maximum efficiency.



## USER-FRIENDLY SOFTWARE FOR SEAMLESS OPERATION

The intuitive ARUN Analytical software makes the ARTUS 8 easy to use with minimal training. A single button triggers analysis, with instant results shown on the main interface. Grade matching, quality control, and data export are all accessible from the toolbar, while advanced functions are available through password-protected admin and engineer profiles.



## SELF-DIAGNOSTIC SYSTEM FOR REDUCED DOWNTIME

The built-in self-diagnostic system alerts users to potential issues such as board malfunctions or low argon pressure. Quick identification of faults helps minimise manufacturing downtime and maintains consistent performance.



## RELIABLE QUALITY CONTROL ACROSS INDUSTRIES

Quality control and assurance are key to business success. The ARTUS 8 supports every stage—from incoming material checks and in-process testing to final inspections and independent lab analysis. Trusted across steel manufacturing, aerospace, automotive, aluminium extrusion, and carbon steel sectors, it features specialised adapters for small or irregular samples and an extensive grade library for instant alloy identification.



## BESPOKE CALIBRATIONS FOR DIVERSE ALLOY TYPES

The ARTUS 8 is engineered for flexibility, offering bespoke calibrations tailored to a broad spectrum of base materials and alloy types, including steels, aluminium, copper, nickel, and more. This adaptability ensures accurate, repeatable results across a wide range of applications – from metallurgical quality control to advanced research and development. Whether you're working in production, inspection or laboratory environments, the ARTUS 8 delivers the precision you need with the customisation your processes demand.



# PRODUCT SPECIFICATIONS



## WORLDWIDE COMPATIBILITY

Designed for seamless global operation, the ARTUS 8 is fully compatible with all international power supplies and current configurations.



## CUTTING-EDGE CMOS TECHNOLOGY FOR HIGH-RESOLUTION DETECTION

Equipped with advanced CMOS detectors, the ARTUS 8 delivers high-resolution spectral detection for precise and accurate elemental analysis.



## TRACE ELEMENT DETECTION AT ULTRA-LOW LIMITS

The ARTUS 8 achieves exceptionally low detection limits, enabling accurate identification of trace elements.

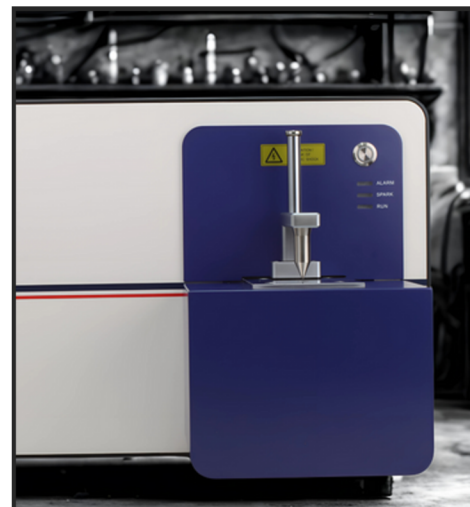


<b>Optical System</b>	Paschen-Runge
<b>Detector</b>	CMOS
<b>Wavelength Range</b>	140-680nm (Ultimate) 170-680nm (Standard) 210-680nm (Visible)
<b>Power Supply</b>	Line input 90 or 260 volts AC 50 - 60 Hz
<b>EMC</b>	IEC61000-4-2, IEC61000-4-4, IEC61000-4-5
<b>Argon Purity</b>	99.998% Minimum 99.999% Ideal
<b>Argon Flow</b>	When burning - 5L/min Standby mode - 0.5L/min Sleep mode - 0.1/min
<b>Software</b>	Intuitive software for simple routine operation. Various user levels for secure and task-specific operations.
<b>Dimensions</b>	72x44x81cm
<b>Weight</b>	80kg

# PERFORMANCE OVERVIEW

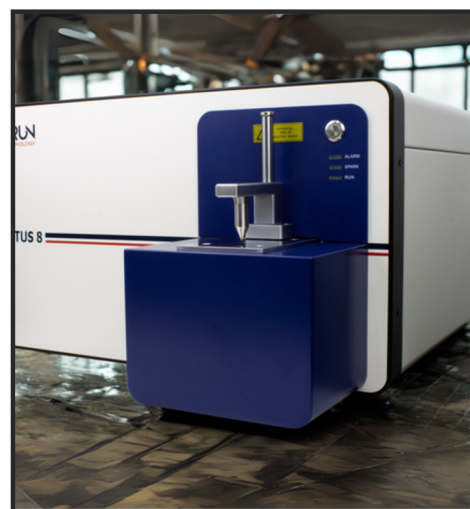
## ACCURACY

The ARTUS 8 delivers outstanding analytical precision thanks to cutting-edge CMOS detector technology and bespoke calibrations across a wide range of alloys. Its ultra-low detection limits ensure trace elements are accurately identified, supporting even the most demanding quality control requirements.



## STABILITY

Engineered for continuous performance, the ARTUS 8 features a heat-dissipating spark stand and self-diagnostic system, ensuring 24-hour operation with minimal downtime. Its corrosion-resistant components and intelligent argon management maintain consistent results over time, even in challenging industrial environments.

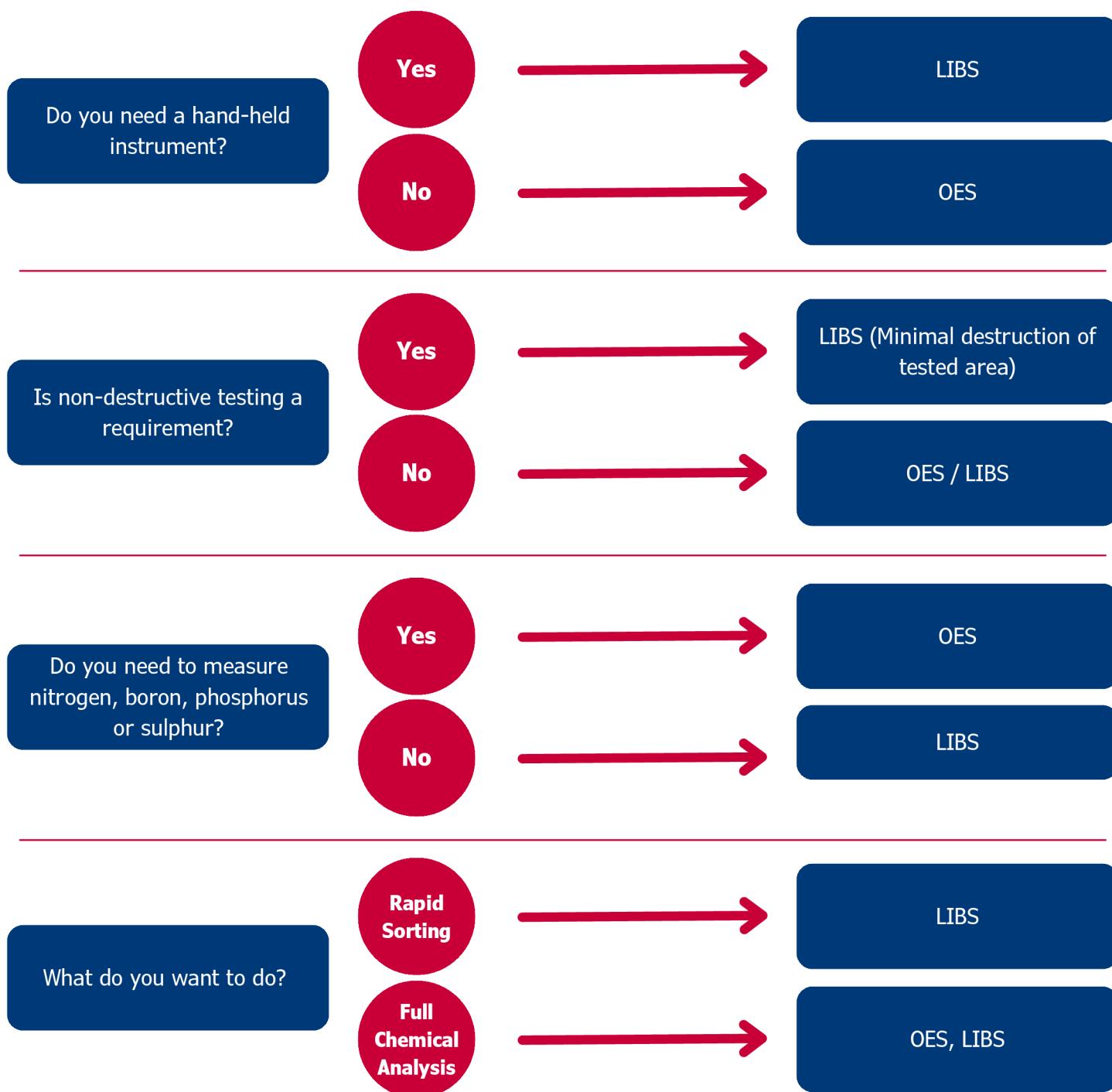


## SPEED

Designed for efficiency, the ARTUS 8 combines intuitive software with rapid analysis capability. A single button triggers measurement, with instant results and grade identification displayed on-screen. Low standby argon consumption and automatic sleep mode further enhance operational speed without compromising precision.



# OES OR LIBS ?



OES and LIBS are both used for accuracy and precision of results in elemental analysis.

OES offers high-precision results, ideal for lab-based analysis.

LIBS, provides fast, portable testing with minimal sample prep. Perfect for rapid, on-site alloy verification.



# OUR SERVICE COMMITMENT

At ARUN Technology, we take pride in delivering exceptional customer care - before, during, and after your purchase.

Our dedicated ARUN Service Support team is here to help protect and maintain your spectrometers, providing reliable coverage to prevent faults and minimise downtime. ARUN Technology is committed to keeping your operations running smoothly with expert after-sales care.

## Our services include:



### **ANNUAL PREVENTATIVE MAINTENANCE**

Protect the long-term performance of your OES instrument with regular servicing and expert support.



### **COMPONENT REPLACEMENT & INTERNAL CLEANING**

Key optical components and replenishable parts are replaced before degradation, while internal cleaning prevents contamination and unplanned downtime.



### **MATRIX CALIBRATION CHECKS**

Performed by experienced engineers using certified samples to ensure accuracy. Fine-tuning is carried out to optimise key elements within your specific grades and alloys.



### **CERTIFICATES OF CALIBRATION**

Issued after service work is completed to certify instrument performance and support compliance for auditing purposes.



### **TELEPHONE HELP DESK**

Expert support when you need it, helping resolve issues quickly and efficiently.



### **CONSUMABLES & SPARE PARTS**

A full range of consumables, including electrodes and spare part kits, is available to support ongoing use. Consumables and spares are ready for immediate dispatch from our UK office.




### **3 YEAR WARRANTY**


Enjoy the peace of mind with 3 year coverage to protect your investment and avoid unexpected costs

## CONTACT

 [www.aruntechnology.com](http://www.aruntechnology.com)

 [info@aruntechnology.com](mailto:info@aruntechnology.com)

 +44 (0) 1293 513123

 16 The Brunel Centre  
Newton Road, Crawley  
West Sussex, RH10 9TU



Certificate Number: 1122  
ISO 9001, ISO 14001  
ISO 45001, ISO 27001

