



ARTUS 8 High Performance Metals Analyser

Made To Measure



Technology at work for you

The metal production process requires fast, precise, and accurate analyses for the perfect melt. The **ARTUS 8** is our most powerful and consistently reliable workhorse. The **ARTUS 8** offers a complete range of analytical programmes offering comprehensive coverage in Cast Iron, Steels with Carbon and Nitrogen, all alloying elements and all the traces needed for treatment. The **ARTUS 8** is easy to use allowing shop floor personnel to perform the analyses for faster sample turnaround. All of the above, plus it's economical to run.

THE ANALYTICAL PERFORMANCE YOU NEED

ARTUS 8 KEY BENEFITS A LEGEND REBORN

- Compact benchtop model
- 3 side open spark stand with XY-sample clamp
- High analytical performance
- Controlled by PC or laptop
- Windows 10 operating system
- High-resolution, full-spectrum optical systems
- No vacuum pump, no Argon purge in optics
- Holographic diffraction grating
- High-resolution CCDs
- Digital spark source
- Ethernet connectivity
- Bespoke A-PLUS software

The **ARTUS 8** is a high performance and versatile CCD spectrometer with the largest optical system that ARUN has to offer, ensuring complete spectral coverage at best resolution and light efficiency. This makes the **ARTUS 8** the perfect choice for more demanding and heavy-duty applications. The **ARTUS 8** has been developed as a non-compromising instrument. It offers all the advantages of a flexible and versatile CCD spectrometer. It even challenges some applications with classical photomultiplier systems, which are still the benchmark in high-end OES. The **ARTUS 8** completes the offering to higher end applications. One of the most outstanding features on the **ARTUS 8** is single sample standardisation (3S) which saves time and sample material. Also the Intelligent Analytical Programme Selection, (IAPS) which identifies the base metal and most suitable calibration, therefore saving time and avoiding user mistakes.

ANALYTICAL EFFICIENCY

The **ARTUS 8** treats power and Argon consumption extremely efficiently. But what about time? Labour costs are expensive and longer processing times increase your costs. Luckily the **ARTUS 8** features improved, shortened measurement times thanks to the digital source and new readout regime. Additionally 3S standardisation & IAPS assist with further savings.



ARTUS 8 CONTRIBUTES PERFORMANCE AND RELIABILITY TO YOUR BUSINESS

Quality Control and Assurance are essential to making your business successful. QC&A reduces the risks within the production process, helping to avoid costly material mix-ups, and preventing machinery damage. Adapters help to analyse oddly shaped samples and small pieces. The grade library visually displays non-compliance to alloy specs. The **ARTUS 8** is the ideal companion for incoming material, in-process testing and final quality inspection.

APPLICATION PORTFOLIO

The range of factory calibrations is comprehensive with a wide choice of analytical programs for all applications.

- Iron and Steel alloys
- Cast Iron
- Aluminium and its alloys
- Copper and its alloys
- Nickel and its alloys
- Cobalt and its alloys
- Titanium and its alloys
- Magnesium and its alloys
- Lead and its alloys
- Tin and its alloys

- 1) XY Sample clamp for all types of samples shapes
- 2) Digital source for improved performance
- 3) Spark stand cover with convenient electrode release function
- 4) Hi-res UV optic with direct light path for C, N, O, P, S, Sn and more
- 5) Air optic with multi CCD array for full spectrum coverage



MADE TO MEASURE

The **ARTUS 8** is designed to perform quick and reliable measurements. ARUN Technology offers a wide portfolio of calibrations to choose from. If you require something special, individually tailor-made calibrations can be created by our application development team. The **ARTUS 8** is "made to measure!"



A-PLUS Software

Performance at the click of a button.

The performance of a CCD spectrometer largely depends on Spectra Deconvolution Algorithms. It is not only the physical resolution that determines the analytical power of the instrument. ARUN's A-PLUS software is a bespoke software package that has a powerful spectrometric kernel as well as all the needed "bells & whistles" that help in daily routine work and make the use of the instrument efficient and a pleasure to operate.



THE DIGITAL AGE

The **ARTUS 8** is prepared for the digital age. When connected to the internet, analyses can be published in a cloud database and online factory support is just a mouse-click away. E-learning programs provide training for new operators. Discover ARUN's online world and become a registered user.

Service and Support



We at ARUN Technology understand the importance of your spectrometer's uptime and reliability. Our customers experience exceptional service and support throughout the lifetime of their instrument. To ensure this, ARUN has a global network of service partners with factory trained engineers to provide local support for our installed instruments.

The ARUN ASSIST programme offers various services such as installations, online diagnostics and remote support, but also preventative maintenance contracts and calibration checks. Extended warranties, spares and consumable packages are also available. Educational programs for operators and maintenance staff are available in the classroom or as E-learning modules.

Technical Features

A-PLUS Software

- IAPS – Intelligent Automatic Program Selection
- Foreign language menu capability
- Original factory calibrated programs traceable to CRMs
- Automatic inter-element corrections
- Automatic average calculation
- Display of single or multiple analysis
- Display of mean, Standard Deviation or Relative Standard Deviation
- Configurable result screen with elements, decimals, etc
- Formula editor (Carbon Equivalent, Total Trace, etc)
- Quality control & identification functions
- User defined export functions
- Factory supplied and user configurable grade library
- Pass/Fail option
- Report generator, print or PDF output, selected by sample ID field content
- User standardisation for each program
- User configurable Type Standardisation
- Storage and retrieval of data
- Global matrix standardisation (GMS) and type standardisation

Technical Data

Weight & dimensions

Weight: 80kg
Packing Weight: 130kg
Instrument size: 721 x 440 x 780mm
Packing size: 980 x 990 x 770mm

Electrical requirements

Line input 90 or 260 Volts AC 50-60 Hz
Automatic voltage stabilisation

Environmental requirements

Operating temperature 10 to 35°C
Storage temperature -10 to 70°C

Other requirements Argon

99.998% or 99.999% purity – Argon gas purifier can be used, depending on application
Sample taking equipment relevant to metal types
Sample preparation equipment relevant to metal types

