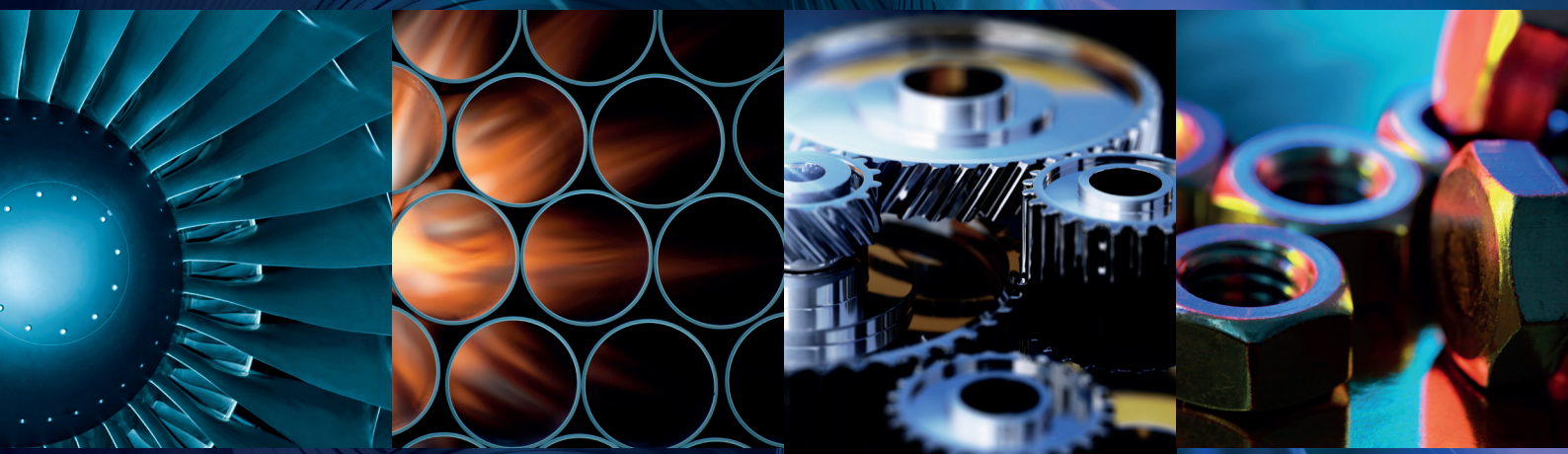


SPECTRO

AMETEK
MATERIALS ANALYSIS DIVISION

Introducing
SPECTROMAXx LMX09
ARC/SPARK OES ANALYZER



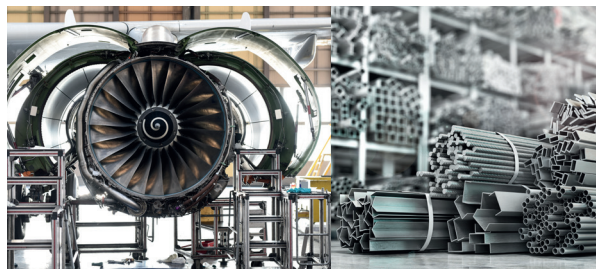
**Next-generation improvements lead the
way for ultra-reliable performance**

Best-selling analysis for material control SPECTROMAXx

From incoming materials to in-process testing to final inspection for outgoing quality, metal producing and fabricating plants demand advanced elemental analysis. For over a decade, one instrument has routinely delivered just that.

Its record of reliability has helped make SPECTROMAXx perhaps the industry's best-selling arc/spark *optical emission spectrometry (OES)* analyzer. Its fast, accurate, cost-effective measurements add essential certainty in critical supply chains worldwide.

Like its predecessors, this ninth-generation SPECTROMAXx furnishes outstanding speed. Users get ultrafast information, and can react rapidly to changing process conditions. It also provides drastically reduced cost of ownership — with lower consumables plus advanced diagnostics and easy maintenance to increase availability and prevent expensive downtime.



FAST, SIMPLE STANDARDIZATION WITH ICAL 2.0

Using conventional analyzers, standardization can take 30+ minutes, demand multiple samples, and require reruns whenever site conditions change. By contrast, in most cases SPECTRO's proprietary iCAL 2.0 calibration logic needs only 5 minutes and a single sample per day. Plus it automatically compensates for most changes in environmental temperature or pressure. So SPECTROMAXx delivers outstanding stability, productivity, and savings, time after time.

NEW REDUCED ARGON CONSUMPTION

The new SPECTROMAXx has significantly cut its use of expensive argon (Ar) gas, even more than in previous generations. Depending on the model, users reduce argon consumption during operation by 6% to 12% — and during standby by 18% to 64%! All without impacting analytical performance.

NEW EXTENDED WAVELENGTH RANGE

The new generation includes a number of technologies adopted from SPECTRO's top-of-the-line SPECTROLAB S. That includes the option of a new UV optic to handle a spectral range from 120 nanometers (nm) to 235 nm. This enables users to extend reliable analysis to elements such as nitrogen (N), carbon (C), sulfur (S), and phosphorus (P), or hydrogen (H) and oxygen (O) in titanium (Ti) base materials.

NEW EASE OF USE

SPECTROMAXx users now get routine, trouble-free analysis of 10 matrices, 68 methods, and 56 elements — via convenient controls for operation and safety; easier access for use and maintenance; and new software features such as stored spectrum reloading and extended data support functions.

SPECTROMAXx

reliability for incoming and outgoing material control

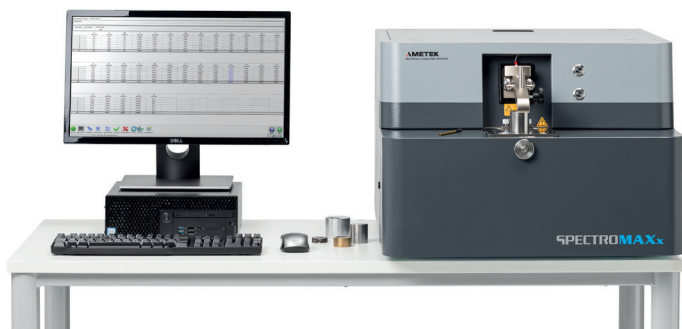
SPECTROMAXx AND SPECTROMAXx ADVANCED

The new generation offers two models, differing only in their optical systems.

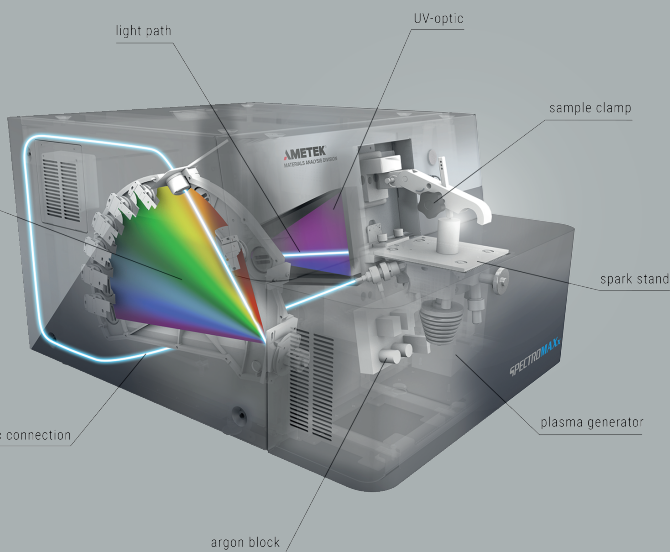
Basic **SPECTROMAXx** features the single air optic with high-resolution CCD sensors already proven in thousands of installed SPECTRO models. Its famously solid design resists fluctuations due to ambient temperature changes. It handles elemental wavelengths from 233 nm to 670 nm.

New **SPECTROMAXx Advanced** offers all the base model's advantages, including the air optic, while adding a new UV optic with four high-resolution CMOS detectors (adopted from SPECTROLAB S). Its extended wavelength range covers elements in the range of 120 nm to 235 nm. A closed system circulates gas through SPECTRO's UV Plus cleaning cartridge, eliminating extra argon consumption and contamination risks.

Both versions feature a temperature-stabilized system, heating both optics and requiring no external cooling. Both versions are available as floor-mounted units with optional PC stand, or benchtop models.



HIGH-PERFORMANCE HARDWARE



EASY-TO-USE SOFTWARE

Even for less experienced personnel, SPECTRO's SPARK ANALYZER Pro software takes effortless operation to a new level. User favorites include application profiles (which can be tailored to predetermined user requirements); automatic program selection (which can automatically choose the right submethod for a given material); and argon saver (which can shut off gas flushes until a user-determined time).

Software function highlights:

- **Ability to recall stored spectra** — results can be re-evaluated/recalculated later, even if samples have been consumed
- **Extended data export functions** — users can choose reporting formats including XML files, ASCII files, or TCP/IP transmission
- **Quick-check programs** — main elements for iron and aluminum materials can be rapidly identified and analyzed in less than 12 seconds
- **Onsite upgrades/additions of analytical methods** — new spectral lines, analytical methods, and even complete matrices can be remotely added to installed units without any hardware changes

SPECTROMAXx

additional advantages



ADAPTERS FOR VARYING NEEDS

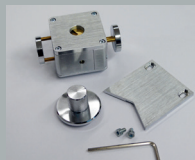
Material control presents a wide range of analysis requirements. Two specific challenges: adjusting to samples' differing shapes and sizes, and optimizing positioning on the spark stand. Fortunately, SPECTROMAXx's adapter kit offers a variety of flexible, easy-to-use solutions.



Small parts adapter kit



Adapter for wires with a diameter of 1-3 mm



Adapter for wires/screws or small parts with a diameter of 3-10 mm



Adapter for small pieces



SUPERIOR SERVICE AND SUPPORT

So that every analyzer is ready when needed, SPECTRO's AMECARE performance services options offer global support that many other suppliers can't match. This industry-leading program fields more than 200 service engineers in 50+ countries, helping deliver optimal performance and the longest possible equipment life. Users can choose proactive performance maintenance, performance upgrades, application solutions, expert consultation, and targeted training.

SPECTRO also offers global remote monitoring via AMECARE's M2M program. So 24/7 diagnostics and critical-function alerts maximize instrument availability for high-volume, high-productivity analysis.

Call your SPECTRO representative today. Find out when and how to send your samples to our analytical technology centers in Europe, Asia, and the Americas to arrange a personal SPECTROMAXx demo — on-site or virtual!

www.spectro.com

COMPLETE LINE OF METAL ANALYZERS

This next-generation SPECTROMAXx model takes its place among today's most comprehensive suite of advanced stationary metal analyzers. It stands beside SPECTRO's flagship SPECTROLAB, a market leader for ultra-precise analysis, plus the entry-level SPECTROCHECK, offering high performance and dependability at a low, very competitive price.

Complementing these are SPECTRO's mobile metal analyzers: the SPECTROTEST mobile analyzer, the SPECTROPORT portable metal analyzer, and the SPECTRO xSORT XRF handheld analyzer.



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