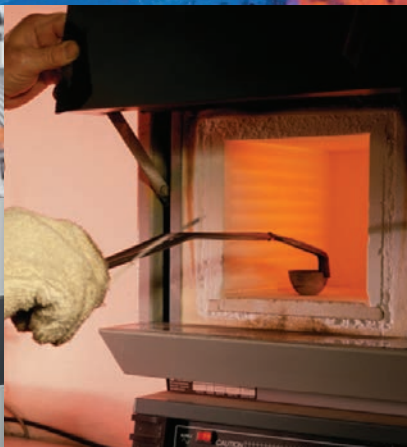


SPECTRO

AMETEK
MATERIALS ANALYSIS DIVISION

Introducing
SPECTROMAXx LMX08
with iCAL 2.0
ARC/SPARK OES ANALYZER



**Even faster speed.
Even better performance.
Even greater intelligence.**

More intelligent analysis for the foundry floor

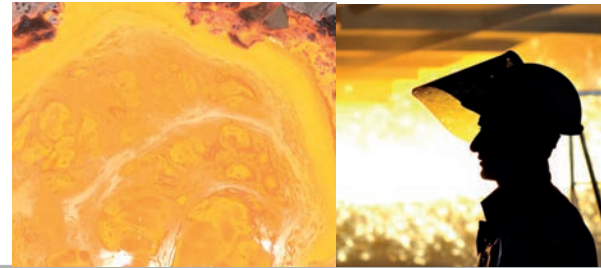
SPECTROMAXx with iCAL 2.0

Foundries demand fast, accurate elemental analysis of metals at numerous points in their workflow, from incoming materials to in-process testing to final quality inspection.

Profitability is a major concern. Without sufficiently accurate analysis, planners end up overbuying: purchasing source materials that are more expensive than necessary from a primary producer. By contrast, with the right analytical solution, a foundry can reach its outgoing quality targets precisely — at minimum upstream cost.

Traceability is another critical consideration. At every step, managers must be able to determine elements in every product, from primary producer to final form. And time always counts. Rapid analysis is vital on today's fast-moving foundry floor.

For over a decade, one instrument has delivered in every analytical area for foundries worldwide.



SPECTROMAXx ARC/SPARK OPTICAL EMISSION SPECTROMETRY ANALYZER

SPECTROMAXx is likely the world's best-selling arc/spark OES instrument — with more than 13,000 installed! The new SPECTROMAXx represents the eighth generation of this industry-leading metal analyzer. With technologies adapted from SPECTRO's top-of-the-line SPECTROLAB, SPECTROMAXx delivers even faster measurement times and significant consumables savings. So it provides greater productivity, analytical performance, ease of use, and cost-effectiveness than ever before.

OUTSTANDING SPEED

The new SPECTROMAXx analyzer achieves record-setting speed. Optimized spark parameters allow a 12% reduction in measurement times. (Example: low-alloy steel takes 3 seconds less than with previous models.) So users get ultrafast information, and can react rapidly to changing process conditions. Results: outstanding savings in both time and energy costs.

LOW GAS CONSUMPTION

SPECTROMAXx starts saving by greatly reducing a significant operational expense, compared to many previous models. It minimizes the use of costly argon gas — without sacrificing analytical performance.

REDUCED COSTS OF OWNERSHIP

Improvements add up. Those shorter measurement times and features such as a proven argon-saver "sleep" mode both help cut gas consumption and deliver superior cost savings. Additionally, reduced maintenance needs create higher availability, while advanced diagnostics with critical status indicators make any maintenance easier — and prevent expensive unplanned downtime.

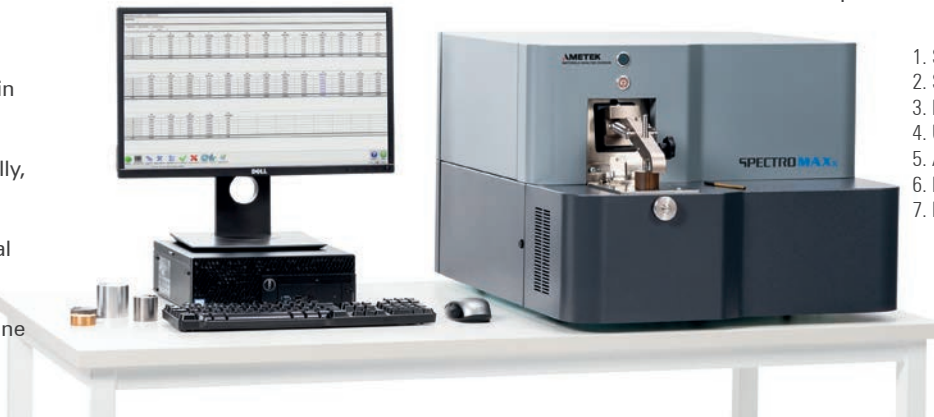
SPECTROMAXx

stability for foundry applications

SPECTRO has always taken every opportunity to improve already excellent analytical performance. Standard samples are carefully selected and tested. Source parameters are studied and optimized. Result: analytical performance that's precisely tuned for the foundry world — and its future demands.

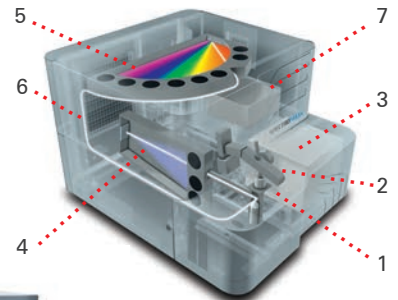
A CHOICE OF CONFIGURATIONS

SPECTROMAXx comes in several configurations for different analytical requirements. Additionally, floor-mounted versions provide ideal operator positioning (with optional matching stand for the instrument's computer). Benchtop models combine easy operation with minimum footprint.



ULTRA-DEPENDABLE DESIGN

A proven air circulation/ventilation system preserves instrument internals from contamination, and helps ensure reliable operation and accuracy.



1. Spark stand
2. Sample clamp
3. Excitation unit
4. UV optic
5. Air optic
6. Fiber optic connection
7. Electronics & readout



FAST, SIMPLE STANDARDIZATION WITH iCAL 2.0

With 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.

THE STANDARD FOR EASE OF USE

Even for less experienced personnel, SPECTRO's SPARK ANALYZER Pro software takes effortless operation to a new level. Instead of multiple dialog boxes, a simplified operator view presents clear choices via dedicated toolbar buttons. And instead of complicated method development, application profiles are tailored to predetermined user requirements.

THE BENCHMARK OF PERFORMANCE

Accurate results rely on precise calibration. Applying more than 40 years' experience, SPECTRO has finely tuned accuracy over successive SPECTROMAXx models, significantly improving analytical performance again and again. These improvements are documented via detailed application reports. SPECTRO also continues its investment in certified reference materials. Result: no analytical surprises.



SPECTROMAXx: additional advantages



CARBON IN NODULAR CAST IRON CAPABILITY

SPECTRO Analytical Instruments has developed an analytical solution that combines the accuracy of the combustion method with the speed and ease-of-use of OES. Incorporated in its SPECTROMAXx systems, this advanced OES technology now makes it possible to precisely detect and analyze samples containing free graphite, with results comparable to those achieved by combustion analysis.



SUPERIOR SERVICE AND SUPPORT

Users depend on the availability of ensured analysis to maintain the highest possible pace of productivity. So that every analyzer is ready when needed, SPECTRO offers global service and support that many other suppliers can't match, with AMECARE performance services options.

This industry-leading program fields more than 200 service engineers in 50+ countries. These high-value, customized services help 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 strives continuously to improve customer support, and now offers global remote monitoring via AMECARE's exclusive M2M program. This revolutionary capability — 24/7 diagnostics and alerts about critical functions — maximizes instrument availability for high-volume, high-productivity analysis.

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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 very competitive low price.

It's complemented as well by SPECTRO's mobile product line, with the SPECTROTEST mobile analyzer, the SPECTRO xSORT XRF handheld analyzer, and the SPECTROPORT portable metal analyzer.

SPECTRO's unparalleled record of technological innovation ensures that users always get the best results in the business with every instrument.

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