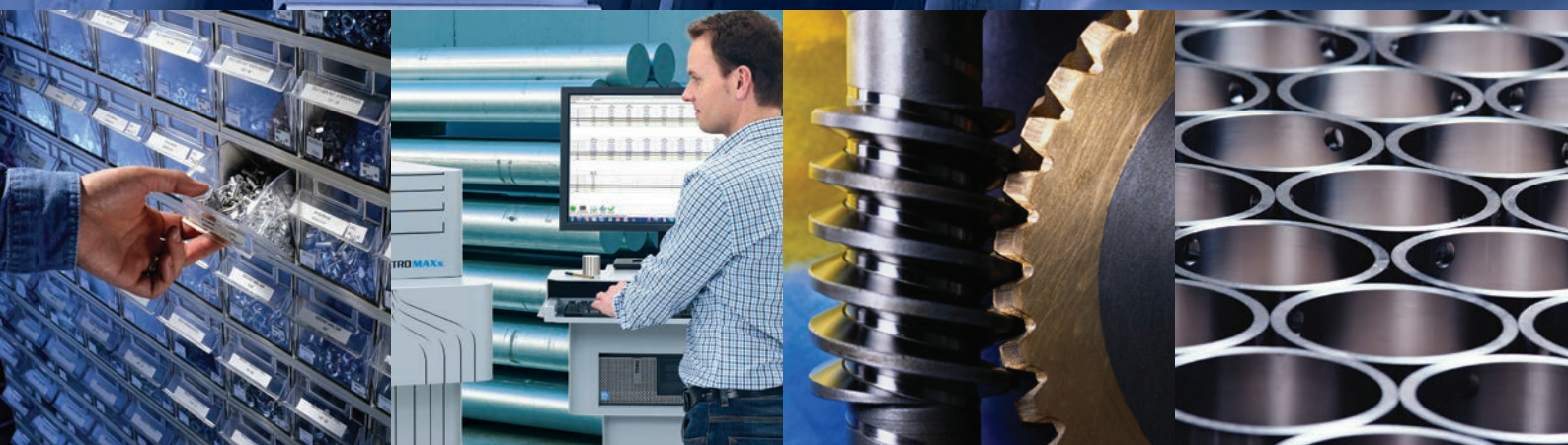


Introducing  
**SPECTROMAX<sup>x</sup>** LMX07  
ARC/SPARK OES ANALYZER



**New and improved  
speed and performance**

# Material control analysis that's generations ahead

## SPECTROMAXx

Manufacturing plants demand advanced elemental analysis of metals, from incoming materials to in-process testing to final inspection for outgoing quality.

Results reliability is most critical for your success. Inconsistent analysis leads to off-spec batches and expensive rework.

Costs — particularly consumables costs — are also important. An ideal analyzer minimizes gas consumption without sacrificing analytical performance.

Speed is also a vital concern. Most analyzers still require multiple standardization samples for each metal matrix. To match today's higher line speeds, processors must seek out new analyzers that greatly reduce required samples and total measurement times.

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



### SPECTROMAXx ARC/SPARK OPTICAL EMISSION SPECTROMETRY (OES) ANALYZER

The new SPECTROMAXx represents the seventh generation of this popular and successful metal analyzer. Based on new technologies adapted from SPECTRO's top-of-the-line SPECTROLAB instrument, SPECTROMAXx has been redesigned for even greater consumables savings and faster measurement time. So this easy-to-use, benchmark analyzer provides greater analytical performance, productivity, and savings than ever before. It's the clear choice for analytical excellence in every incoming and outgoing material control application.



#### LESS GAS CONSUMPTION

The new SPECTROMAXx analyzer starts saving by greatly reducing a significant operational expense. Simply put, it uses lower volumes of costly argon gas without sacrificing analytical performance. Depending on the SPECTROMAXx configuration, consumption cuts range from 18% to 60%!

#### FASTER MEASUREMENT

Redesigned technology also realizes a 15% to 20% reduction in measurement time. (Examples: iron-based alloys take 3-5 seconds less than with previous models; aluminum alloys, 4 seconds less.) So SPECTROMAXx users get ultra quick information, and react fast to changing process conditions. Results: savings in both time and energy costs.

#### 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.

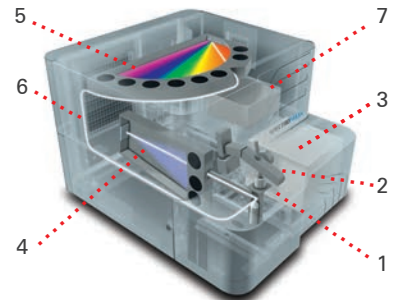


# SPECTROMAXx

## reliability for incoming and outgoing material control

### ULTRA-DEPENDABLE DESIGN

An improved air circulation/ventilation system further 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

SPECTRO took every opportunity to improve already excellent analytical performance in this new SPECTROMAXx. Standard samples were selected and tested. Source parameters were studied and optimized. Both element selection and calibration ranges were reviewed and updated. Result: reliable analytical performance that's precisely tuned for incoming and outgoing material control — today and tomorrow.

### 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.



### SPEEDY, SIMPLE STANDARDIZATION

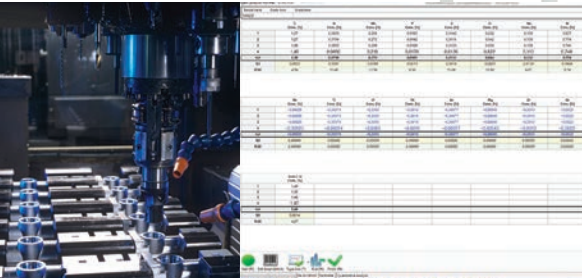
With conventional analyzers, standardization demands multiple samples per matrix and 50+ minutes of measurement time for a three-base instrument, plus excessive downtimes and costs. Instead, SPECTROMAXx's proprietary iCAL calibration logic requires just one sample, and takes only 5 minutes for total measurement. Thus iCAL greatly increases instrument availability — and cuts total cost of ownership.

### 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 30 years' experience, SPECTRO has finely tuned accuracy over successive SPECTROMAXx models, significantly improving analytical performance again in this latest generation. These improvements are documented via detailed application reports. SPECTRO also continues its investment in certified reference materials. Result: no analytical surprises.



# 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 foils or small pieces



## SUPERIOR SERVICE AND SUPPORT

Managers can 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.

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



**GERMANY**  
SPECTRO Analytical  
Instruments GmbH

Boschstrasse 10, D-47533 Kleve  
Tel: +49.2821.892.0  
Fax: +49.2821.892.2202  
[spectro.sales@ametek.com](mailto:spectro.sales@ametek.com)

**U.S.A.**  
SPECTRO Analytical Instruments Inc.  
91 McKee Drive  
Mahwah, NJ 07430  
Tel: +1.800.548.5809  
+1.201.642.3000  
Fax: +1.201.642.3091  
[spectro-usa.sales@ametek.com](mailto:spectro-usa.sales@ametek.com)

**AMETEK®**  
MATERIALS ANALYSIS DIVISION

**CHINA**  
AMETEK Commercial  
Enterprise (Shanghai) CO., LTD.  
Part A, 1st Floor, No.460 North Fute Road  
Waigaoqiao Free Trade Zone  
200131 Shanghai  
Tel.: +86.21.586.851.11  
Fax: +86.21.586.609.69  
[spectro-china.sales@ametek.com](mailto:spectro-china.sales@ametek.com)

Subsidiaries: ▶ **HONG KONG**: Tel. +852.2976.9162, Fax +852.2976.9132, [spectro-ap.sales@ametek.com](mailto:spectro-ap.sales@ametek.com), ▶ **FRANCE**: Tel +33.1.3068.8970, Fax +33.1.3068.8999, [spectro-france.sales@ametek.com](mailto:spectro-france.sales@ametek.com), ▶ **GREAT BRITAIN**: Tel +44.1162.462.950, Fax +44.1162.740.160, [spectro-uk.sales@ametek.com](mailto:spectro-uk.sales@ametek.com), ▶ **INDIA**: Tel +91.22.6196.8200, Fax +91.22.2836.3613, [sales.spectroindia@ametek.com](mailto:sales.spectroindia@ametek.com), ▶ **ITALY**: Tel +39.02.94693.1, Fax +39.02.94693.650, [spectro-italy.sales@ametek.com](mailto:spectro-italy.sales@ametek.com), ▶ **JAPAN**: Tel +81.3.6809.2405, Fax +81.3.6809.2410, [spectro-japan.info@ametek.co.jp](mailto:spectro-japan.info@ametek.co.jp), ▶ **SOUTH AFRICA**: Tel +27.11.979.4241, Fax +27.11.979.3564, [spectro-za.sales@ametek.com](mailto:spectro-za.sales@ametek.com), ▶ **SWEDEN**: Tel +46.8.5190.6031, Fax +46.8.5190.6034, [spectro-nordic.info@ametek.com](mailto:spectro-nordic.info@ametek.com).

▶ SPECTRO operates worldwide and is present in more than 50 countries. For SPECTRO near you, please visit [www.spectro.com/worldwide](http://www.spectro.com/worldwide)

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