

FOUNDRY-MASTER Xline

Metal analysis – fast, easy and precise

Highlights

- Analysis of all ferrous metals and alloys (Al, Ni, Cu material on request)
- Low Argon consumption
- Precise analysis including material identification
- Spark stand easily accessible



Top performance at outstanding value

The **FOUNDRY-MASTER Xline** is a reliable entry level laboratory spectrometer for the qualitative and quantitative element analysis of metal samples. The instrument is designed for stationary bench-top use. Reasonably priced it offers outstanding performance and features usually only found in premium class instruments.

Low operating costs and easy maintenance

The instrument is based on optical emission spectroscopy (OES), the analysing method favoured by most foundries. The fully digital source (spark generator) is controlled via the external Windows® PC and offers ideal excitation parameters.

The high-resolution Multi-CCD optics utilises a vacuum technology chamber, covering the complete wavelength range from 165 to 750 nm, offering accurate detection of all relevant elements in the Fe-matrix.

The rugged and approved vacuum technology is maintenance-free and has significantly lower operating costs than alternative inert gas purged systems.

The sample stand, open on three sides, can measure almost any size or shape of samples, particularly with large and complex shapes with irregular geometries. Additionally, the sample does not need to completely seal the spark stand opening. Tubes, bars and even wires can be directly analysed, using only one universal adapter. This is a major operational advantage and strongly reduces the sample preparation time.

The unique design needs less cleaning than comparable systems, giving much longer operational time and less maintenance. The cleaning process is fast and instrument recovery efficient due to pre-aligned parts and quick connectors. The Argon consumption is reduced to a minimum, saving a considerable amount of operating expenses.

Integrated GRADE Database included

The largest metals database for fast and easy grade identification is already installed in the **FOUNDRY-MASTER Xline**. It offers more than 8 million records for over 220,000 materials from 67 countries and standards. You can update your instrument's grade database with a few clicks – no time consuming research in norms and grade catalogues.

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Spark emission spectrometers for foundries and metal producers

- Easy to use, even for untrained operators
- Maintenance-free vacuum technology
- Software tailored to the operator's needs, simplicity combined with efficiency

Technical specifications

Height	380 mm / 15.0"
Width	740 mm / 29.1"
Depth	880 mm / 34.6"
Weight	100 kg / 220 lbs
Power	90 - 250 V AC, 50 / 60 Hz
Operating / standby	600 W / 70 W

Optical System

Multi-CCD	In Paschen-Runge mounting
Resolution	13 µm / pixel
Reciprocal dispersion	0.9 nm / mm (1st order)
Wavelength range	165 - 780 nm
Focal length	350 mm
Holographic grating	3000 grooves / mm

Solid state source

	Computer controlled parameters, DSP 160 MHz 16 bit
Frequency	50 - 500 Hz
Voltage	250 - 500 V
	High energy pre spark (HEPS)

Readout system

External PC workstation	incorporating up-to-date technology
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Environmental conditions

Temperature	0 - 40 °C / 50 - 104 °F
Humidity	10 - 90 % not condensing

Options

Wire adapter set	Sample preparation devices
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OiService

Our global network of service hubs provides a full range of technical support:

- Telephone help-desk
- On-line diagnostic
- Rental instrument
- Maintenance
- Training
- Extended warranty
- Consumables and accessories
- Repair service

Please ask about details of our comprehensive range of products or visit our website at:

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