

FOUNDRY-MASTER Xline

Metal analysis – fast, easy and precise

- Analysis of all ferrous metals and alloys (Al, Ni, Cu material on request)
- Jet-Stream-Technology
- Low argon consumption
- Precise analysis including material identification
- Easy-access spark stand



Top performance spectrometer 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 use as a benchtop unit. Reasonably priced it offers outstanding performance and practical features usually only found on 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 new developed 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 in order to cover the complete wavelength range from 165 nm to 780 nm, offering accurate detection of all relevant elements in Fe matrix.

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

The sample stand, open on three sides, offers the ability to measure almost any size or shape of sample, particularly large sample geometries. Thanks to our unique Jet-Stream-Technology within the sample stand **FOUNDRY-MASTER** Xline can analyse most complex shapes with irregular sample 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 maintainance.

The cleaning process is fast and instrument recovery efficient due to pre-aligned parts and quick connectors.

Argon consumption is reduced to a minimum, saving a considerable amount of operating expenses.



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INSTRUMENTS

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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 Data		Solid State Digital Source	
Height	380 mm (15.0")	Computer controlled parameters	
Width	740 mm (30.0")	Frequency	100 – 400 Hz
Depth	880 mm (35.0")	Voltage	300 – 500 V
Weight	100 kg (230 lbs)	High Energy Pre Spark HEPS	
Mains Power	90-250 VAC (50/60 Hz)	Readout System	
Operating Mode	600 W	External PC workstation incorporating up-to-date technology	
Standby Mode	50 W		
Vacuum System		Options	
Direct-path optical sample stand		Wire adapter set	
Low-noise vacuum pump		Sample preparation devices	
Shut-off-valve for easy replacement of the optical window		Spare parts kit	
		Consumables kit	
Optical System		Typical Applications	
Multi-CCD optical system with Paschen-Runge Mount		Analytical mode / identification	
Resolution CCD	13 pm/pixel	Fe: alloys, cast-iron alloys	
Reciprocal dispersion	0.9 nm/mm (1st order)		
Focal length	350 mm		
Holographic grating	3000 g/mm		
Wavelength	165 – 780 nm		



OiService worldwide service and support

Oxford Instruments Customer Service recognises there are many decisions to make when choosing the right product and company with which to partner. It is not just about superb instrument functionality or the rugged design of the analyser. The OiService teams are aware of the necessity to demonstrate our depth of knowledge, skills, experience and expertise with regard to supporting our customers.

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