

# FOUNDRY-MASTER PRO

## The first class laboratory optical emission spectrometer for complete metal analysis

Engineered for high performance and reliability, the new **FOUNDRY-MASTER PRO**, with its innovative optical system and extended wavelength range assures precise identification and trace analysis of important elements, such as: **N in steel and P in aluminium**.

Proprietary detector and read-out technology, developed specifically for spectroscopy applications, out perform conventional photo tube based systems, positioning **FOUNDRY-MASTER PRO** as the system of choice for metal manufacturers, processors and the foundry industry.

A unique sample stand, proven jet-stream technology and a superior plasma oscillator ensure straightforward and precise analysis. Sample geometries, from large semi-finished products to tiny wires present few challenges.

Ease-of-use and simplicity differentiate the **FOUNDRY-MASTER PRO**. The intuitive user interface and numerous customer driven features conspire to make life simple.

Compact, robust and reliable, the high-precision **FOUNDRY-MASTER PRO** can be used in any location.

- Wavelength range 130 nm – 800 nm covering all elements
- Precise analysis including grade determination
- Uncompromising analysis
- High long term stability and lowest limits of detection



*The Business of Science®*

- Low argon consumption
- Jet-stream technology for small and complex sample geometries
- Robust technology for continuous operation
- Easy-access spark stand

## Oxford Instruments Industrial Analysis

### UK

Halifax Road, High Wycombe  
Bucks, HP12 3SE England  
Tel: +44 (0) 1494 442255  
Fax: +44 (0) 1494 461033  
Email: analytical@oxinst.com

### China

Beijing  
Tel: (8610) 6518 8160/1/2  
Fax: (8610) 6518 8155  
Email: info@oichina.cn

### Finland

Espoo  
Tel: +358 9 329 411  
Fax: +358 9 3294 1300  
Email: FI-Espoo\_Info@oxinst.com

### Germany

Uedem  
Tel: +49 (0) 2825 93 83 -0  
Fax: +49 (0) 2825 93 83 -100  
Email: DE-Uedem\_Info@oxinst.com

### Japan

Tokyo  
Tel: +81 (0) 3 5245 3591  
Fax: +81 (0) 3 5245 4466/4477  
Email: oikkma@oxinst.co.jp

### Latin America

Clearwater FL  
Tel: +1 727 538 7702  
Fax +1 727 538 4205  
Email: oxford@gate.net

### Singapore

Tel: +65 6337 6848  
Fax: +65 6337 6286  
Email: asiasales@oxinst.com

### North America

Elk Grove Village IL  
Tel: +1 847 439 4404  
Fax: +1 847 439 4425  
Email: sales@msys.oxinst.com

[www.oxford-instruments.com](http://www.oxford-instruments.com)



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### Technical Data

Height	1130 mm (44,49")
Width	720 mm (28,35")
Depth	840 mm (33,07")
Weight	160 kg (353 lbs) <i>without vacuum pump</i>
Mains Power	110/230 V (50/60 Hz)
Max consumption	2000 W <i>including vacuum pump</i>
Average consumption	1200 W
Stand by	70 W

### Optical System

Rowland circle optic in Paschen / Runge mounting  
Effective wavelength range 130 – 800 nm  
High resolution multi-CCD-optic with optimized Pixel resolution  
Easy, external light path access for cleaning of lenses during operation

### Solid State Source

Computer controlled parameters  
Frequency 100 – 500 Hz  
Voltage 100 – 500 V  
High Energy Pre Spark HEPS

### Readout System

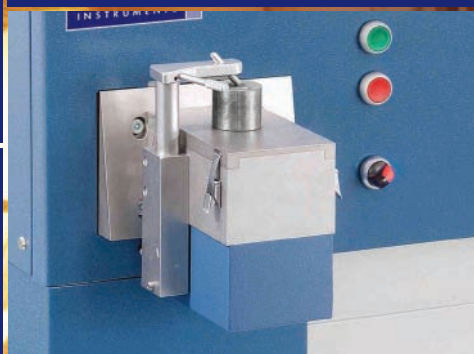
External PC-Workstation incorporating up-to-date technology

### Options

Wire-adapter set  
Sample preparation devices  
Spare parts kit  
Consumables kit

### Typical Applications

Analytical mode / identification  
steel, cast iron and high alloyed steel  
non-ferrous metals and their alloys  
Al wrought alloys, casting alloys...  
Cu bronze, brass, cupronickel...  
Mg -, Zn - alloys...



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