

# FOUNDRY-MASTER

PRO2

# HITACHI

Inspire the Next

Ultimate quality control. No compromise.



**PROCESS / QUALITY CONTROL**

# Superior metals analysis without compromise

Seamless quality control is essential throughout the metals industry, from trace element analysis in scrap metal, to incoming materials inspection, melt process control and goods issue.



The FOUNDRY-MASTER Pro2 optical emission spectrometer is a metals analyser engineered to deliver superior analysis at every stage, without compromising your productivity. Thanks to its near constant availability and high resolution dynamic detector you can get detailed results quicker, minimising production downtime and costly errors.

A cost effective choice, the FOUNDRY-MASTER Pro2 minimises argon consumption and keeps down operating costs.

This unique combination of performance and efficiency makes FOUNDRY-MASTER Pro2 the analysis instrument of choice for the metals industry.

## Technical Specifications

Height / width / depth	1140 mm	730 mm	850 mm
Weight	180 kg		
Power	90 – 250 V AC, 50 / 60 Hz		
Consumption max.	1000 W		
Operating mode / standby	700 W / 50 W (100 W source on)		
<b>Optical system</b>			
Rowland circle	Paschen-Runge mounting		
High resolution Multi-CMOS	Optimised pixel resolution		
Wavelength range	130 – 780 nm		
Focus	350 mm		
<b>Solid state source</b>			
	Computer controlled parameters, DSP 160 MHz 16 bit		
Frequency	80 – 500 Hz		
Voltage	250 – 500 V		
	High Energy Pre Spark (HEPS)		
<b>Readout system</b>			
External PC workstation	Microsoft® Windows® user interface		
<b>Options</b>			
Adapters	Sample preparation devices		
Spare parts kit	Consumables kit		







# Highlights and applications

The intuitive user interface and numerous features of the FOUNDRY-MASTER Pro2 make analysis work easy. Just place the sample on the spark stand, start the measurement and read the result. The extremely low detection limits for various applications, particularly carbon and nitrogen analysis in iron and steel, offer superior results in QA/QC and melt process control.

- | Maximum availability, minimum downtime.
- | Excellent long-term stability, precision and accuracy.
- | Increased productivity with higher sample throughput.
- | Low cost of ownership with optimised power and argon consumption.
- | Includes largest metals database on the market for fast and easy grade identification.
- | Method for determination of soluble and insoluble aluminium available.

A unique spark stand, accessible from three sides, makes the FOUNDRY-MASTER Pro2 ideal for samples with complex and irregular shapes and sizes.

# Our Service

Our global network of service hubs offers a full range of technical support to keep you up and running.

- | **Telephone help-desks**  
For a fast response to your problem.
- | **Consumables and accessories**  
From electrodes to spare part kits.
- | **Recertification and maintenance**  
Ensures your analyser produces the right result year after year.
- | **Training**  
Understand your analyser and its features.
- | **Extended warranties**  
Avoid unplanned costs.
- | **Repairs**  
Fast and efficient turnaround.

## MORE INFORMATION

To find out more about the FOUNDRY-MASTER range of analysers, visit:

[www.hitachi-hightech.com/hha](http://www.hitachi-hightech.com/hha)

# Grade database included

The largest metals database on the market for fast and easy grade identification is already installed on the FOUNDRY-MASTER Pro2.

The Hitachi GRADE Database offers more than 12 million records for over 339,000 materials from 69 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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Part number: 63\*120/1117

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CERT #3397.01