

PMI-MASTER PRO

Fast and reliable metal-analysis

The completely revamped spectrometer system offers besides its compact and sturdy construction, additional functions and also an improved analytical capability.

Apart from the new excitation-electronics, which guarantee a superior precision and constancy in both Arc and Spark results, the energy management of the instrument was also enhanced for mobile use.

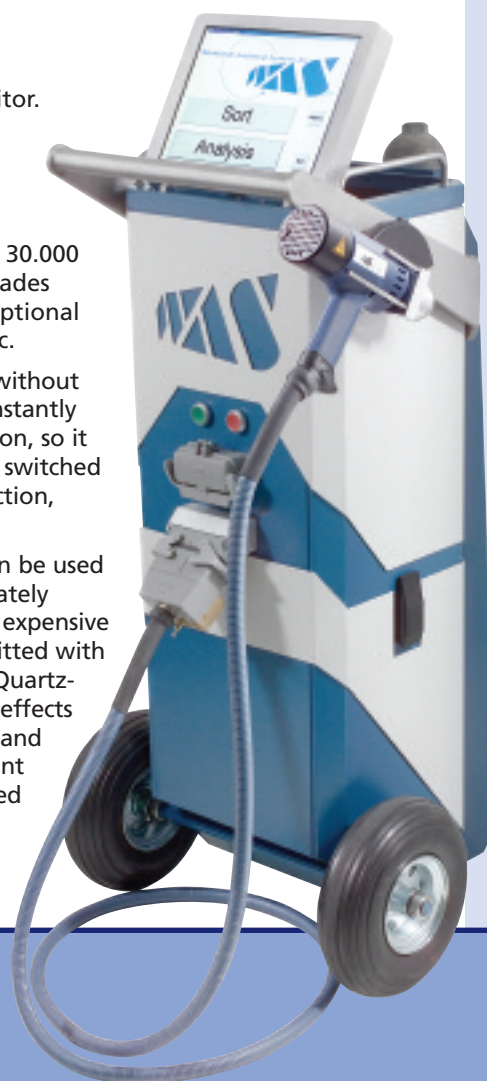
The 24 volt power supply is designed to guarantee independence from mains power over a number of days. Operation is via a 12.1 inch touch-screen monitor. Depending on use the monitor can be individually adjusted. The pluggable module can also be used independently of the transportation unit, making it easy to use even in difficult to access locations.

Thanks to the multi CCDs Optical-system with up to 30.000 channels, material tests on all standard materials grades and chemical elements can be executed. With the optional UV probe assessing P and S in Steel is unproblematic.

The optical system is re-adjusted fully automatically without any interaction by the operator. As this process is constantly preformed in the background during normal operation, so it is not necessary to acclimatize the instrument. When switched on the **PMI-MASTER PRO** is immediately ready for action, there is no warm-up phase.

Due to the WAS jet-stream technology; the probe can be used on the most complex shapes, even wire can be accurately measured without the added cost of specialized and expensive adapters. What's more, as standard, our probes are fitted with HPC fibre-optic cable. This special high transmission Quartz-fibre is not prone to decay (blindness) caused by the effects of solarisation and is therefore unique in its stability and durability. This uniqueness allows precise measurement of the minutest trace of carbon. (I.e. in low carbonized stainless steel 304L/316L).

- Perfect mobility due to battery-power, the transportation unit and the ample length of the probe-heads flexible tube.
- A versatile analytical-system in spite of its compact construction.
- Precise analysis and material identification with quality detection
- Jet-stream technology permits prompt measurement on all shapes and forms



Worldwide Analytical Systems AG



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The Business of Science™

OXFORD
INSTRUMENTS

- Precise analysis, quick grade ID and sorting
- Battery function
- Jet-Stream Technology
- High Performance Carbon Fibre
- Input via Touch-Screen

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Technical Data

Height	500 mm (19,7")
Width	355 mm (14,0")
Depth	290 mm (11,4")
Weight	17 kg (37,5 lbs)
Mains Power	100-250 V (50/60 Hz)
Battery Power	24 V

Options

UV-PRO optic for measuring
UV-Elements
Wire-adapter.set
Sample preparation devices
Spare parts kit
Consumables kit

Typical Applications

Fe alloy
L grade segregation in Stainless-steel
P. and S. analysis in Stainless-steel
Al alloy ~ Al-Si ~ Al-Si-Cu.
Cu-Mg ~ Cu-Zn ~ Cu-Ni.
Mg, Cu, Ti, Zn, alloys....

Optical System

Multi CCD optical-system	
Resolution CCD	6 Pico-meter
Reciprocal dispersion	0,9 nm/mm (1st order)
Focal length	350 mm
Wavelength	185 – 420 nm
Excitation unit	Digital semiconductor technology
Arc excitation	Max 3 Amp
Spark excitation	Max 400 V / 300 Hz / 6 µF
Probe	Arc/Spark WAS jet-stream technology HPC fibre-optic cable.
Tube length	4 m (13'3")
Probe Weight	800 g (1.8 lbs)

Readout System

Internal PC- incorporating up-to-date technology

We put the spark in Spectrometry

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