PMI-MASTER SORT

State of the Art technology in mobile metal analysis

The **PMI-MASTER** SORT is a robust, portable spectrometer for precise analysis, quick grade ID and sorting of all common metals and their alloys.

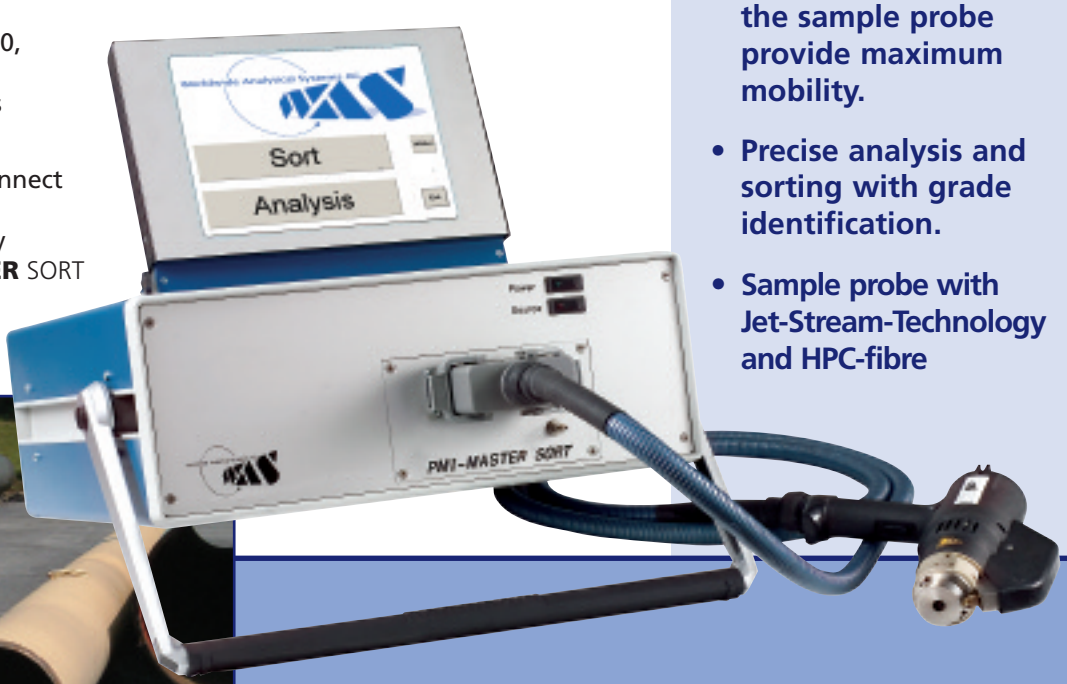
The instrument source works with a high-frequency spark in argon or a direct-current arc in air. The respective excitation mode can be selected according to application and can be changed easily. Depending on the selected mode, the **PMI-MASTER** SORT analyses metals almost as precise as a laboratory instrument. If using purely for rapid sorting, a measurement time of only a few seconds is required. Because of the compact design the **PMI-MASTER** SORT is a universal spectrometer that always lives up to the different demands.

The operating system for the internal PC is Microsoft Windows™ XP. This and the WASLaB software are controlled by a scratch-resistant and industrial-standard touch-screen. The interfaces for printer, network, USB are standard hardware ports.

The **PMI-MASTER** SORT is equipped with an internal battery, allowing operation independent from a fixed power supply, which makes the system extremely flexible. The battery is automatically charged whenever the system is connected to the mains.

Since the introduction of the **PMI-MASTER** SORT in early 2000, the instrument has proved its value worldwide with hundreds of installations.

A simple plug is sufficient to connect the sample probe to the basic instrument. The probe is quickly detached from the **PMI-MASTER** SORT for easy transportation. (Transportation-case Optional)



- **Input via Touch-Screen**
- **Precise analysis, quick grade ID and sorting**
- **Battery-function**
- **Jet-Stream-Technology**
- **High Performance Carbon fibre**
- **The battery option, the transport cart and the length of the sample probe provide maximum mobility.**
- **Precise analysis and sorting with grade identification.**
- **Sample probe with Jet-Stream-Technology and HPC-fibre**

Worldwide Analytical Systems AG

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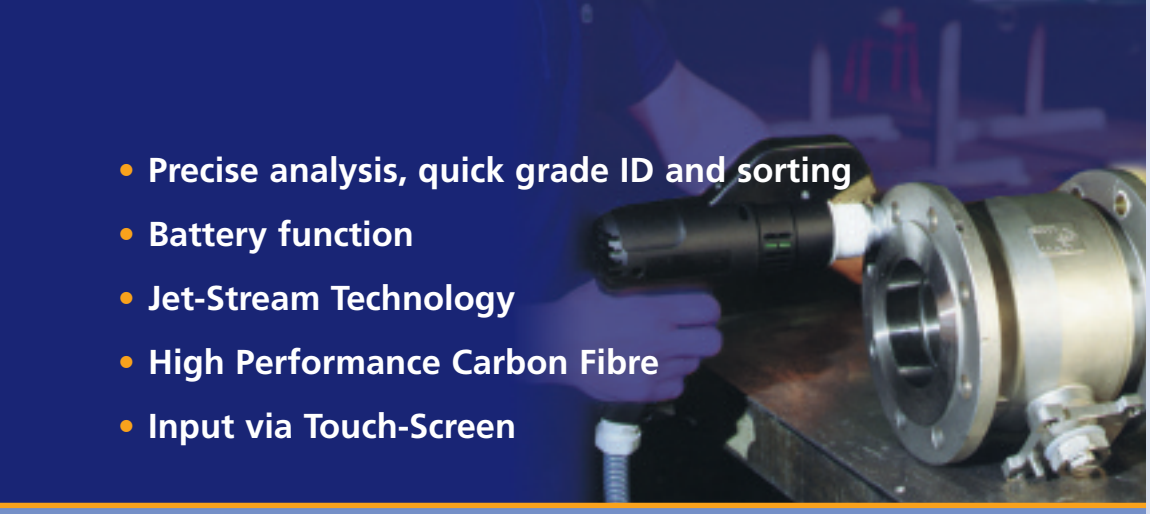
The Business of Science™

OXFORD INSTRUMENTS



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

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	12 V

Readout System

Internal PC-Workstation incorporating up-to-date technology

Options

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

Typical Applications

Sorting and grade identification for the majority of alloy types in ferrous and non-ferrous metals

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)

We put the spark in Spectrometry

Click onto **www.oxford-instruments.com** for more information

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Certificate No FM29142

Part no: OIIA/032/A/0108