

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 common metals and 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 precisely 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. The Operating system and WASLaB software are controlled by a scratch-resistant and industrial-standard touch-screen. 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.

- 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



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The Business of Science®



- 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 | 12 V |

Readout System

Internal PC-Workstation incorporating up-to-date technology

Options

Wire-adaptor 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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