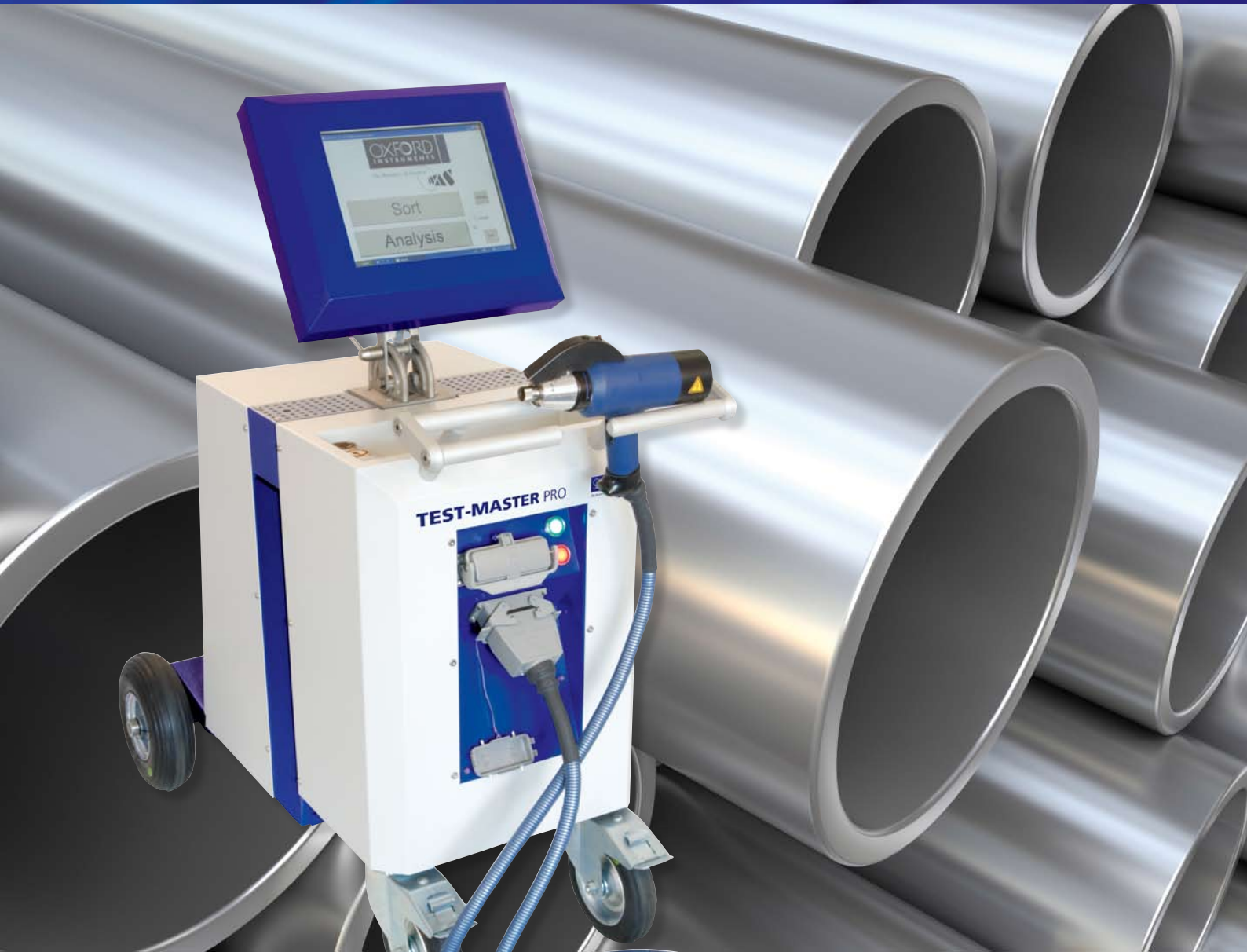


# OES

## TEST-MASTER PRO

Maximise your cost savings and production efficiency with rugged mobile OES analysis!



*The Business of Science®*



# TEST-MASTER PRO

# OXFORD LIVES

**TEST-MASTER PRO is a robust, mobile spectrometer for precise analysis, quick grade ID and sorting of metallic samples. It is optimised for continuous operation, and is ideally suited for heavy industrial and fully automated applications.**

## Product highlights

- Rapid sorting in 3 seconds
- Light weight sample probe
- Heat exchanger for cooling
- High performance analysis
- Input via Touch-Screen
- Automation interface

The **TEST-MASTER PRO** displays the unique capability of producing precise carbon analysis in a surprisingly quick 4 second test.

A software controlled digital high frequency power source produces a controlled spark in argon or a direct-current arc in air.

Current, voltage, frequency and inductance can be separately monitored and adjusted to optimise the most efficient parameters for the application.

Frequencies and voltages up to 500Hz / 500V as well as an arc current of up to 6A allows trouble-free excitation. An added advantage is that even grey cast iron excitation in spark-mode is possible.

Speed of analysis, precision and user-friendliness were the most important factors in the design and development of the **TEST-MASTER PRO**.



Automation Probe

# OES

## High performance, rapid OES analysis

The high resolution Multi-CCD-Optic's readout system uses DSP technology (Digital Signal Processing). The 14 CCD-detectors each have a dedicated processor that evaluates the data from the complete wavelength range in only microseconds. This allows the use of our dynamic integration algorithm (DIA) which dramatically improves the repeatability of the measurement.

To maintain maximum uptime and field reliability effective cooling is required. This is achieved by a revolutionary new secondary cooling circuit with its own heat exchanger. More conventional cooling methods blow air through the different compartments of the instrument, carrying dust, dirt, moisture and metal vapour into the housing. Even filters don't prevent this completely and need regular replacement resulting in increased cost. The **TEST-MASTER's** housing is hermetically sealed and absolutely dust proof. Less to go wrong means greater reliability and lower cost of ownership.

### Options

UV-PRO Mini Optic for analysing UV elements and low carbon contents, Bluetooth® printer, uninterrupted power supply, external keyboard, sample preparation devices, spare parts and consumables kit.

### Automation

- Automation interface with 6 channels for connection to a PLC-system (START, RESET, GOOD, BAD, AUTO, READY)
- Automation probe ARC with rugged aluminium housing, reinforced cooling system and 10m connection hose
- Automation probe SPARK with rugged aluminium housing, integrated Mini Optic for C, P and S determination
- 10m connection hose
- Automation software with data export via LAN or USB, interaction with PLC (Programmable Logic Control)
- Remote terminals for spectrometer control available



Easy to obtain precise results in seconds!



# OIES

## We put the spark in Spectrometry

### Oxford Instruments Industrial Analysis

The mobile, battery operated **PMI-MASTER PRO**, **TEST-MASTER PRO** and **ARC-MET8000** enable accurate, stable and fast analysis for different alloy applications.

The **FOUNDRY-MASTER PRO**, **FOUNDRY-MASTER UV** and **FOUNDRY-MASTER COMPACT** are stationary optical emission spectrometers for process-control and the chemical analysis of metals capable of delivering high analytical flexibility. These compact instruments can distinguish nearly all elements in all metals. Steel and cast iron can be precisely and quickly analysed for all commonly found elements, such as C, P, S, Cr, Al, Cu, Ni, Ti, Co, Pb, Sn, Zn, N or Mg and many more. Please contact us to discuss your precise requirements.



Oxford Instruments' high technology analysers and systems are used across a wide range of applications in many markets including quality control, elemental analysis, compliance testing, scrap metal recycling and coating thickness measurement.

Wherever the key global issues of energy conservation, protection of the environment, national and personal security and health are being addressed, our products can be found.

Core technologies include Optical Emission Spectroscopy (OES), X-ray Fluorescence (XRF), Nuclear Magnetic Resonance (NMR) and Energy and Wavelength Dispersive Microanalysis.

#### Oxford Instruments Industrial Analysis

For more information please email: [industrial@oxinst.com](mailto:industrial@oxinst.com)

##### UK

High Wycombe  
Tel: +44 (0) 1494 442255

##### China

Shanghai  
Tel: +86 21 6132 9688

##### Finland

Espoo  
Tel: +358 9 329 411

##### Germany

Udem  
Tel: +49 (0) 2825 93 83 -0

##### Latin America

Concord MA  
Tel: +1 978 369 9933 Ext. 220

##### Singapore

Tel: +65 6337 6848

##### North America

Concord MA  
TOLLFREE: +1 800 447 4717  
Tel: +1 978 369 9933

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

visit [www.oxford-instruments.com](http://www.oxford-instruments.com) for more information

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