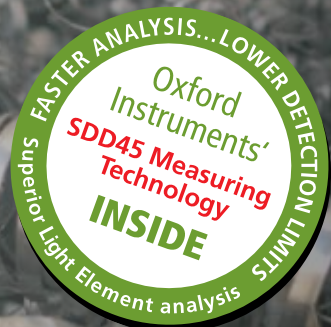


# SCRAP

## X-MET<sup>®</sup> for Scrap

Fastest scrap sorting!

accurate  
rugged  
reliable



*The Business of Science<sup>®</sup>*



# SCRAP

## X-MET5000 and X-MET5100

6061/6063 alloy separation without vacuum or helium attachments!

**X-MET5000 and X-MET5100 multi-element X-ray fluorescence (XRF) analyzers are engineered to deliver unparalleled speed and measurement accuracy for high throughput, real-time results that can be trusted.**



These highly productive mobile testing tools – indispensable for metals, plastics, electronics and wood recycling – can for the first time also separate 6061/6063 alloys without the need for vacuum or helium attachments. The **X-MET5100** with its Light Element capability enables more accurate and rapid aluminium grade identification. It also provides the scrap recycling industry confidence to accurately identify and analyze nickel, copper and ferrous materials that may contain large amounts of light elements such as aluminium, silicon or phosphorus.

**Fastest  
scrap  
sorting!**

Silicon Drift Detector technology improves productivity!

Top of the range **X-MET5100** combines Oxford Instruments' groundbreaking Silicon Drift Detector (SDD) with a powerful 45kV X-ray tube. This cutting edge technology delivers a five times faster measurement speed, much better detection limits and significant accuracy improvement over conventional systems. Isn't it time you used **X-MET** to improve your productivity?



### X-MET5000 – High performance scrap sorting

- Fast and accurate analysis of valuable and tramp elements
- Analysis of Cr, Ni, Mo, and Cu in seconds – even at low concentrations
- Reliable identification of wide range of alloy grades
- High speed averaging up to 50 successive measurements for effortless batch evaluation

### What's more, X-MET5100 provides:

- Unparalleled speed: complete alloy analysis and grade ID in seconds
- Revolutionary Light Element analysis (Mg, Al, Si, P, S) without awkward vacuum pumps or helium bottles
- Invaluable tool for aluminium measurement and analysis of alloys which may contain large amounts of light elements (Mg, Al, Si, P, S)

# Fast scrap sorting

High speed analysis of valuable and/or unwanted elements with the **X-MET** series

## Rugged and reliable tool for fast, accurate analysis

- Withstands all weather conditions and rough treatment
- IP54 (NEMA 3) approved. Superior dust and moisture protection
- High-strength environmentally sealed housing
- Long battery operating time, charge indicator on battery and user interface
- Totally non-destructive testing

## Just point and shoot

- Analyze known and unknown samples
- Analyze large or small samples, solids and chips, turnings or shavings
- Analyze metals, precious metals, soils and even plastics
- The **X-MET** automatically compensates for a wide variety of sizes and forms of samples



## Extensive and open grade library

The **X-MET** allows easy editing of the grade libraries, including the addition of new alloys and naming of alloys. The integrated grade library contains:

- Nickel Alloys
- Stainless Steels
- Cobalt Alloys
- Low Alloy Steel
- Tool Steels
- Copper Alloys
- Titanium Alloys
- Zirconium Alloys
- Aluminium Alloys

The **X-MET** is capable of storing thousands of grade identifications and it's easy to add new elements or to create a custom library.



# SCRAP

Proven design based on over 35 years experience  
in the field of portable hand-held XRF analyzers

## Three modes of operation

### Choice of analysis modes

- Traceable Empirical Calibrations for optimized accuracy
  - Additional custom calibrations can be created with optional PC software package
- Fundamental Parameter Calibrations when standards are not available
  - Universal calibration that can measure over 30 elements between CHU (X-MET5000) and between Mg-U (X-MET5100)
- Pass / fail mode when only a small range of materials need to be identified
  - User programmable pass /fail and alarm



## Easy and reliable

- Short learning curve
- User interface in >10 languages
- Easy data storage and reporting
- PDA based technology for flexibility and simplicity
- CE, cCSAus certified



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