The X-MET8000 is great when you need accurate on-site alloy identification and chemistry in metal recycling and scrap yards.

The optimised combination of a high performance X-ray tube and large area silicon-drift detector (SDD) delivers the performance required in even the most demanding metals applications.

Use it for the analysis of light elements (Mg to S) and most commercial alloys, including aluminium, titanium, bronze and high temperature alloys.

The low limits of detection provide accurate grading and determination of impurities and penalty elements.

The X-MET8000 helps you maximise your profits.
Why the X-MET8000 is the perfect tool for your business

RESULTS YOU CAN TRUST
The X-MET8000 offers the best of both worlds with versatile fundamental parameters (FP) method and empirical calibrations (traceable to certified reference materials) for superior precision and accuracy.

EASY TO USE
The intuitive, icon-driven user interface means that minimal operator training is required. It has a customisable results screen for fast decision making, displaying the information that is important to you.

PRACTICAL
It’s light (1.5 kg) and ergonomic, making it comfortable for daily use. The 4.3” colour touchscreen is easy to use with gloves on and to read, even in direct sunlight. There is no tool required to change the quick-swap analysis window when broken or dirty.

FAST START-UP
Be up and running in seconds. It also has an automatic sample size compensation for accurate testing of cables, wires down to 1 mm diameter, fasteners, turnings and chips to name a few.
**BUILT TO LAST**

The X-MET8000 is IP54 compliant (equivalent to NEMA 3) for super protection against dust and water. It has an impact-resistant housing with environmental sealing, and rubber bumpers around the screen, nose and battery to protect against shocks. A large heat sink provides optimum robustness and stability, even in hot environments. The shield (optional for Expert and Optimum models) or robust, thick Kapton® window (Smart model) prevent the detector and X-ray tube damage when testing small components and sharp objects.

**POWERFUL DATA MANAGEMENT**

Store up to 100,000 results including spectra and sample image (if camera is fitted). Download results and reports directly to a USB stick, or a PC in CSV format or tamper-proof PDF for ultimate data integrity. Create your own reports using X-MET report generator (no software installation needed). This can include company logo, sample image, results, spectra and additional sample information. You can share results on-the-go with suppliers, customers or colleagues with our app.

**EXTENSIVE, CUSTOMISABLE GRADE LIBRARY**

The X-MET8000 includes the most comprehensive grade library: the pre-installed, user selectable AISI, DIN, JIS and GB libraries include a total of over 1600 alloys. Users can modify the existing libraries, add new grades (such as manufacturer or location specific grades), or create their own library.

The pre-loaded libraries include:

- Nickel alloys.
- Stainless steels.
- Copper alloys.
- Aluminium alloys.
- Cobalt alloys.
- Low alloy steels.
- Tool steels.
- Titanium alloys.
- Zirconium alloys.
- And more...
## CONFIGURATION OPTIONS

<table>
<thead>
<tr>
<th>X-MET8000 Smart</th>
<th>X-MET8000 Optimum</th>
<th>X-MET8000 Expert</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>The smart choice for the routine identification and analysis of common alloys</td>
<td>Optimised for the high speed grade identification and analysis, from aluminium to bronzes and brasses to steels etc.</td>
</tr>
<tr>
<td><strong>X-ray tube</strong></td>
<td>40 kV</td>
<td>40 kV or 50 kV (depending on application)</td>
</tr>
<tr>
<td><strong>X-ray tube filters</strong></td>
<td>Single filter</td>
<td>6 position filter wheel for the optimised analysis of all elements from Mg to U</td>
</tr>
<tr>
<td><strong>Detector</strong></td>
<td>Large area SDD</td>
<td>Large area SDD</td>
</tr>
<tr>
<td><strong>Element range</strong></td>
<td>K – U</td>
<td>Mg – U</td>
</tr>
<tr>
<td><strong>Max. sample temperature</strong></td>
<td>400°C</td>
<td>100°C</td>
</tr>
<tr>
<td><strong>IP54 rating</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>1.5 kg</td>
<td>1.5 kg</td>
</tr>
<tr>
<td><strong>Battery life</strong></td>
<td>10 – 12 hours</td>
<td>10 – 12 hours</td>
</tr>
<tr>
<td><strong>Protection against detector window damage</strong></td>
<td>Thick Kapton window</td>
<td>Optional window shield</td>
</tr>
<tr>
<td><strong>Calibrations</strong></td>
<td>Standardless</td>
<td>Standardless (includes light elements analysis)</td>
</tr>
</tbody>
</table>

## HARDWARE AND SOFTWARE OPTIONS

<table>
<thead>
<tr>
<th>FEATURE</th>
<th>X-MET8000 Smart</th>
<th>X-MET8000 Optimum</th>
<th>X-MET8000 Expert</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bluetooth</td>
<td>Included</td>
<td>Included</td>
<td>Included</td>
</tr>
<tr>
<td>WiFi</td>
<td>Included</td>
<td>Included</td>
<td>Included</td>
</tr>
<tr>
<td>Integrated camera</td>
<td>Optional</td>
<td>Optional</td>
<td>Included</td>
</tr>
<tr>
<td>Small-spot collimator</td>
<td>Not Included</td>
<td>Optional</td>
<td>Optional</td>
</tr>
<tr>
<td>Report generator</td>
<td>Included</td>
<td>Included</td>
<td>Included</td>
</tr>
</tbody>
</table>
Optional accessories for maximised productivity and operator safety

HOLSTER AND BELT:
for hands-free on-site transportation of the analyser.

LIGHT RADIATION SHIELD:
to minimise scattered radiation when analysing light alloys (e.g. Al alloys).

LIGHT STAND AND SAFETY SHIELD:
for the on-the-go analysis of small samples (e.g. screws, fasteners). It fits in the X-MET case for total portability.

PORTABLE BLUETOOTH PRINTER:
print results on paper or sticky labels, and attach them to test pieces; convenient and mix-up free.
Our global network of service hubs offers a full range of technical support to keep you up and running.

- **Telephone help-desks**  
  For a fast response to your problem.

- **Online diagnostics**  
  In-depth support over the internet.

- **Rental instruments**  
  To keep you working if your analyser is not.

- **Recertification and maintenance**  
  Ensures your analyser produces the right result year after year.

- **Training**  
  Understand your analyser and its features.

- **Extended warranties**  
  Avoid unplanned costs.

- **Consumables and accessories**  
  From spare batteries to benchtop stands.

- **Repairs**  
  Fast and efficient turnaround.
What next?

Contact one of our experts today at contact@hitachi-hightech-as.com to arrange a demo.

MORE INFORMATION

To find out more about the X-MET8000 range of analysers, visit www.hitachi-hightech.com/hha

Other products

We have been providing industrial analysis products for over 40 years.

| **Vulcan**: latest technology for 1-second alloy identification with no X-rays. |
| **Mobile and portable OES**: for high performance analysis of alloyed and trace elements. |

Browse our full range of products online at www.hitachi-hightech.com/hha