

X-MET8000

HITACHI
Inspire the Next



RECYCLING

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

The Optimized 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 aluminum, 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 maximize 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 customizable 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 " color 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 window (optional for Expert and Optimum models) prevents 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, CUSTOMIZABLE 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.
- | Aluminum alloys.
- | Cobalt alloys.
- | Low alloy steels.
- | Tool steels.
- | Titanium alloys.
- | Zirconium alloys.
- | And more...



CONFIGURATION OPTIONS



| | X-MET8000 Smart | X-MET8000 Optimum | X-MET8000 Expert |
|---|---|--|--|
| Description | The smart choice for the routine identification and analysis of common alloys | Optimized for the high speed grade identification and analysis, from aluminiums to bronzes and brasses to steels etc | Our top performer provides the ultimate performance for the testing of the widest variety of alloys; with superior light elements (Mg, Al, Si, P, S) and tramp elements analysis |
| X-ray tube | 40 kV | 40 kV or 50 kV (depending on application) | 50 kV |
| X-ray tube filters | Single filter | 6-position filter wheel for the optimized analysis of all elements from Mg to U | |
| Detector | Large area SDD | Large area SDD | Large area SDD |
| Element range | K – U | | Mg – U |
| Max. sample temperature | 100°C | 100°C 400°C with HERO™ (heat resistant) window (optional) | |
| IP54 rating | Yes | Yes | Yes |
| Weight | 1.5 kg | 1.5 kg | 1.5 kg |
| Battery life | 10 – 12 hours | 10 – 12 hours | 10 – 12 hours |
| Protection against detector window damage | Shield window | Optional window shield | |
| Calibrations | Standardless | Standardless (includes light elements analysis) | Standardless + automatic selection of empirical calibrations (traceable to certified reference materials) for superior precision and accuracy |

HARDWARE AND SOFTWARE OPTIONS

| FEATURE | X-MET8000 Smart | X-MET8000 Optimum | X-MET8000 Expert |
|-----------------------|-----------------|-------------------|------------------|
| Bluetooth | Included | Included | Included |
| WiFi | Included | Included | Included |
| Integrated camera | Optional | Optional | Included |
| Small-spot collimator | Not Included | Optional | Optional |
| Report generator | Included | Included | Included |

Optional accessories for maximized productivity and operator safety

HOLSTER AND BELT:

for hands-free on-site transportation of the analyzer.

LIGHT RADIATION SHIELD:

to minimize 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 Service

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 analyzer is not.



Recertification and maintenance

Ensures your analyzer produces the right result year after year.



Training

Understand your analyzer 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.com to arrange a demo.

MORE INFORMATION

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



Other products

We have been providing industrial analysis products for over 45 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

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