

# VULCAN

Fast. Durable. Accurate.

**HITACHI**  
Inspire the Next



QAQC

# This is Vulcan.

It's one of the fastest metals analysers in the world. It will help you to check large inventories and avoid material mix ups that can have serious consequences.

Vulcan allows you to identify and analyse a wide range of alloys. It gives results on all common alloys, including aluminium, magnesium, titanium, cobalt, chromium, nickel, and copper alloys as well as stainless steels, tool steels, low alloy steels and more.

It's a light (1.5kg) and ergonomic laser analyser, so even when used for long periods it will feel comfortable and easy to operate.

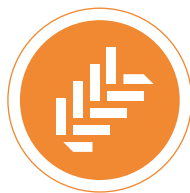


# Why is Vulcan the perfect tool for your business?



## **SIMPLE TO USE**

'Point and shoot' operation and intuitive user interface hugely reduces if not almost completely eliminates user error. The instrument is ready to go straight out of the box.



## **BUILT TO LAST**

Its measurement optics are protected by sapphire glass, one of the toughest materials available. It's also splash water and dust proof (IP54 certified, NEMA 3 equivalent), and complies with the MIL-STD-810G military grade standard for ruggedness.



## **INCREASED PRODUCTIVITY**

Vulcan gives results in one second, regardless of the alloy type. A couple of second's difference in speed can have a huge impact to your operations. When measuring aluminium alloys, Vulcan can be even 10 times faster than XRF.



## **FULL DAY OPERATION**

Vulcan's 8–10 hour battery life ensures that there will be no interruptions in your work routine.



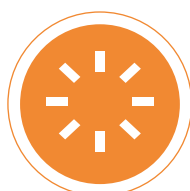
## **LATEST TECHNOLOGY**

Share and store your results securely, and generate reports with our cloud-based service. You can also connect Vulcan directly to your mobile phone to add pictures and to share results instantly.



## **LOW COST OF OWNERSHIP**

A much lower cost of ownership than an XRF analyser, which requires expensive licenses and time consuming radiation safety training classes.



## **WORKS ALMOST INVISIBLY**

Less than one billionth of a gram of material is consumed during a typical analysis leaving an almost invisible burn mark on the surface of the metal.

# An option to suit your needs

We offer two different models to provide you with a cost-effective solution to identify steels and nickel alloys. Vulcan Smart is just as fast as the Vulcan Expert, so you'll still get results in a second.



| Features   | Vulcan Smart | Vulcan Expert |
|--|--------------|---------------|
| Grade identification and full chemistry                    | ●            | ●             |
| Stainless steels, low alloy steels, tool steels, Ni alloys | ●            | ●             |
| Co, Cu, Pb, Sn, Ti, Zn alloys                              | Optional     | ●             |
| Al and Mg alloys   | N/A          | ●             |
| Built-in camera  | Optional     | Optional      |
| Wi-Fi  | ●            | ●             |
| Pre-burn to clean the sample surface                       | ●            | ●             |
| IP54 (NEMA 3 equivalent) dust and splash water protected   | ●            | ●             |
| MIL-STD-810G compliant                                     | ●            | ●             |
| Full day operation with one battery*                       | ●            | ●             |

\*Based on analysing one sample every five seconds for eight hours.

The instrument comes with up to 1500 pre-installed grades. AISI, DIN, JIS and GB libraries are included as standard. You can also easily modify the existing libraries, as well as add your own custom libraries.

# Our Service

Our global network of service hubs can offer a full range of technical support to keep you up and running:



Annual calibration checks and re-certification services.



Rental instruments so you can keep working if your analyser isn't.



A range of consumables and accessories from spare batteries to window cleaners.



Extended warranties to give you peace of mind and avoid unplanned costs.



Training to help you get the most from your analyser and all its features.



Telephone help desks to guarantee a fast response to any problem.



A fast and efficient repair service, recertification and maintenance through our Vulcan service agreements that ensures your analyser is maintained in excellent condition and avoids any unplanned costs.



Whenever you operate a Class 3b laser device such as Vulcan, we strongly recommend you use laser safety goggles.

# What next?

Contact one of our experts today at [contact@hitachi-hightech-as.com](mailto:contact@hitachi-hightech-as.com) to arrange a demo.

## MORE INFORMATION

To find out more about the Vulcan range of laser analysers, visit [www.hitachi-hightech.com/hha](http://www.hitachi-hightech.com/hha)



## Other products

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

- | **Handheld and benchtop XRF:** for fast, reliable, non-destructive identification and analysis of alloys.
- | **Mobile and portable OES:** for high performance analysis of alloyed and trace elements; nitrogen analysis in duplex steels.

Browse our full range of products online at [www.hitachi-hightech.com/hha](http://www.hitachi-hightech.com/hha)

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