

# VULCAN

**HITACHI**  
Inspire the Next

Maximise profits.



**RECYCLING**



# This is Vulcan.

It's one of the fastest metals analysers in the world. Just squeeze the trigger and one second later the result appears. It's a laser analyser that will last, even in the toughest scrapyard conditions.

With increased productivity and accurate results, get top value for your scrap to maximise your profit.

Using 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.





# Why is Vulcan the perfect tool for your business?



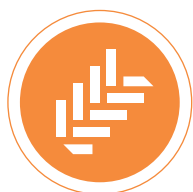
## **SIMPLE TO USE**

Operate it all day long on a single battery and without referring to a manual. It's ready to go straight out of the box.



## **PRACTICAL**

It's compact, ergonomic and light (1.5 kg), making it comfortable for daily use. The screen is easy to read, even in direct sunlight.



## **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.



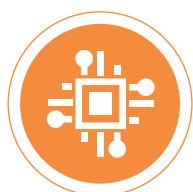
## **SAVES TIME**

A reliable grade ID in just one second. When sorting aluminium alloys, Vulcan can be up to 10 times faster than XRF analysis.



## **LOW COST OF OWNERSHIP**

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



## **LATEST TECHNOLOGY**

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

# An option to suit your needs

We offer three different models to provide you with a cost-effective solution to identify steels and nickel alloys.



Features	Vulcan Smart+	Vulcan Optimum+	Vulcan Expert+
Grade identification and full chemistry	●	●	●
Stainless steels, low alloy steels, tool steels, Ni alloys	●	●	●
Co, Cu, Pb, Sn, Ti, Zn alloys	Optional	Cu, Ti	●
Al and Mg alloys	N/A	Lithium in Al Alloys	●
Built-in camera	Optional	Optional	Optional
WiFi	●	●	●
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 get a quote.

## 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 a leading provider of industrial analysis products for over 45 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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Science for  
a better tomorrow