

Vulcan

Maximize profit

Our range of laser induced
breakdown spectroscopy
(LIBS) analyzers for recycling

HITACHI

This is Vulcan

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

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

Using Vulcan allows you to identify and analyze a wide range of alloys. It gives

results on all common alloys including aluminum, 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?

1. 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.

2. 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.

3. 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.

4. Saves time

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

5. Low cost of ownership

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

6. 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 to 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, Co, Cu, Pb, Sn, Ti and Zn alloys.	●	N/A	●
Al and Mg alloys	N/A	●	●
Li in Al alloys	N/A	●	N/A
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 analyzing 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 services

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

Rental instruments

So you can keep working if your analyzer isn't.

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 analyzer 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 analyzer is maintained in excellent condition and avoids any unplanned costs.



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

Other Products

We've been providing industrial analysis products for the manufacturing industry for 60 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; separate L-grade stainless steels by carbon content and analyze nitrogen in duplex steels.

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

More information

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

Contact one of our experts today at:

contact@hitachi-hightech.com

to get a quote.

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