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Get your hands on

**VULCAN**

And get results in a flash.

# THIS IS VULCAN.

Vulcan is the fastest metals analyser for scrap sorting in the world. Just squeeze the trigger and one second later the result appears on the easy to read screen.

It's also the lightest and the easiest to use. Because its user interface is so simple, Vulcan significantly reduces user error, so you get far more accurate and consistent results.

Splash water and dust proof, Vulcan is a rugged Laser Induced Breakdown Spectroscopy (LIBS) tool that will last, even in the toughest scrapyard conditions.



# WHY IS VULCAN THE PERFECT TOOL FOR YOUR BUSINESS?



It's the fastest analyser on the market. There's nothing quicker. Reliable grade ID in just one second.



Designed to withstand harsh environments and tough enough to be used in a scrapyard. Its measurement optics are protected by sapphire glass, one of the toughest materials available.



It's easy to pick up and operate without referring to a manual. With a short learning curve, you will be up and running with Vulcan in no time.



You can operate it for a full day on a single battery, making it an efficient hassle-free tool for use in the scrapyard.



# WHAT MAKES VULCAN SO SPECIAL?

## Built to last

A handheld XRF analyser's detector can occasionally be broken, so users sometimes face high repair bills. That's not the case with the Vulcan laser tool. It's been designed to be rugged and durable. As well as being splash water and dust proof (IP54 certified), Vulcan's measurement window is protected by strong sapphire glass, meaning no punctured detectors and no expensive repairs. The instrument is actually so strongly built that it complies with the MIL-STD-810G military grade standard for ruggedness.

Vulcan has been tested to perfection, but if anything does go wrong, you're still covered. The tool has extended warranties and service plans available covering maintenance and support, giving you peace of mind and no surprise costs.

## OiConnect

Store your results securely and generate reports with our cloud-based service. Access your data anytime, from anywhere.

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## No faster tool anywhere

Vulcan is really fast. Squeeze the trigger and you have the results in one second. It's the fastest analyser in the world for identifying and analysing metal alloys and quicker than any handheld XRF or other handheld laser products on the market.

Start using Vulcan and you will soon save time and become more productive.

## The latest technology at your fingertips

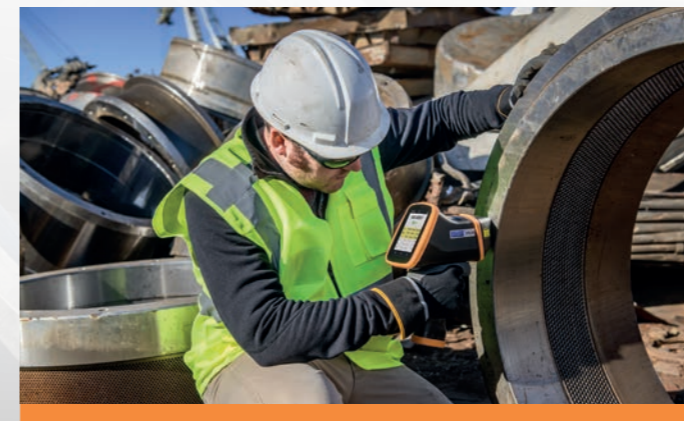
Vulcan also offers advanced data management if you need it. You can connect it via Wi-Fi to the OiConnect cloud service and store your results securely, as well as using a USB stick and downloading your results to a computer or laptop.



## Comfortable and practical to use

A laser analyser tool is meant to make your life easier and that's very much the case with Vulcan. It's been designed to be comfortable and practical to use on a daily basis. It's ergonomic, balanced and fits easily into your hand, which is important when you could be using it for several hours a day. And you can use it all day long on a single battery. It's also easy to clean the analyser nose and you don't need any special tools to do this.

Vulcan's screen is very easy to read and uses the most advanced technology for making the screen exceptionally legible in direct sunlight.



## Analyse a wider range of alloys

Using Vulcan means you can identify and analyse a much wider 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.

With Vulcan you can analyse all common alloy types, heavy and light. Many similar products can only analyse and identify light alloys such as aluminium, magnesium and titanium alloys.

## A tried and trusted tool

We recognise that purchasing a laser analyser is a significant investment, but when you buy Vulcan you're getting great value for money.

Vulcan delivers outstanding performance and results. Its proprietary core components (the spectrometer and laser) are manufactured in-house by Oxford Instruments and it has been carefully developed and rigorously tested. It's a completely new, second generation instrument developed by the people with the most experience in the handheld LIBS market.



## Easy to get started, simple to use

Vulcan is the simplest analyser on the market. This means it's quicker to use and that its ease of use reduces or even eliminates user errors. So your results will be far more accurate and consistent. Which has to be good for business, right?

Because Vulcan is a laser analyser, it has a much lower cost of ownership than an XRF analyser, which requires much stricter licensing and certification for training. Not only can you start using Vulcan more quickly and easily, but you will also make significant cost and time savings on training.



# VULCAN SMART OPTION

If you are looking for a cost-effective solution to identify steels and nickel alloys only, Vulcan Smart might be exactly what you need.

It's designed for ferrous applications and its performance is limited to stainless steels, tool steels, low alloy steels and nickel alloys only. However, you can upgrade the package to include cobalt, copper, lead, tin, titanium and zinc calibrations.

Vulcan Smart is just as fast as the Vulcan Expert, so you'll still get results in a second, and it's still rugged, ergonomic and easy to use.



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	✓
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	✓	✓
Warranty (instrument)	1 year	1+1 years
Warranty (battery)	3 months	3 months
Grade library with over 1500 grades	✓	✓



OiService®



## We're here to help you!

OiService aims to keep your Vulcan working as hard as you do. 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 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?

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**We're very excited about Vulcan and we believe it's an ideal tool for the scrap metal market.**

Incredibly fast, easy to use, durable and capable of delivering the most accurate and consistent results from the widest range of alloys and materials. It even looks good. We reckon it ticks all the boxes. But we would say that, wouldn't we?

**Why not see for yourselves how good it is?**

Contact one of our experts today at [vulcan@oxinst.com](mailto:vulcan@oxinst.com) to arrange a demo. We're confident that you'll soon see what all the fuss is about. And then you can use the world's fastest analyser to get the best value from your scrap metal.



## MORE INFORMATION




To find out more about the Vulcan range of laser analysers visit our website [www.oxford-instruments.com/vulcan](http://www.oxford-instruments.com/vulcan) or drop us an email [vulcan@oxinst.com](mailto:vulcan@oxinst.com)

## OTHER PRODUCTS



**Oxford Instruments: meeting all your alloy analysis needs.**

We have been providing products and analysis for the recycling industry for over 50 years. Contact one of our experts today at [vulcan@oxinst.com](mailto:vulcan@oxinst.com)

-  Handheld LIBS: the fastest tool for accurate alloy identification.
-  Handheld 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.

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