

MOSS

Compact and affordable

**SMALL SIZE, BIG PERFORMANCE
IMMENSE IN RESULTS**



**The most
economical
OES ever**

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Epoch-defining breakthrough

Metal Power has heralded a true technological breakthrough with the launch of MOSS which is available at prices under half of any competing OES. This makes it the most economical spectrometer ever made – and by a whopping margin. It's not just the capital cost that MOSS addresses, but also the operating costs – with world beating optimization of Argon consumption, offering 2,000+ burns / cylinder. The real narrative of MOSS however, is not about economy; it's about how MOSS shows the pinnacle of every aspect of technology being applied to entry-level OES – elevating what "entry-level" means!

Scale of Applications!

Steels

Consider this. MOSS can analyse 30+ elements – including Nitrogen. In alloy steels for example, it analyses Carbon (C), Sulphur (S), Phosphorus (P) and Nitrogen (N) down to 50 ppm – and elements like Boron down to as low as 5 ppm. An equivalent model from any other source would cost double the price. This makes it ideal for all manner of rolling mills, foundries, casting units, TMT units etc. and even for large plants who

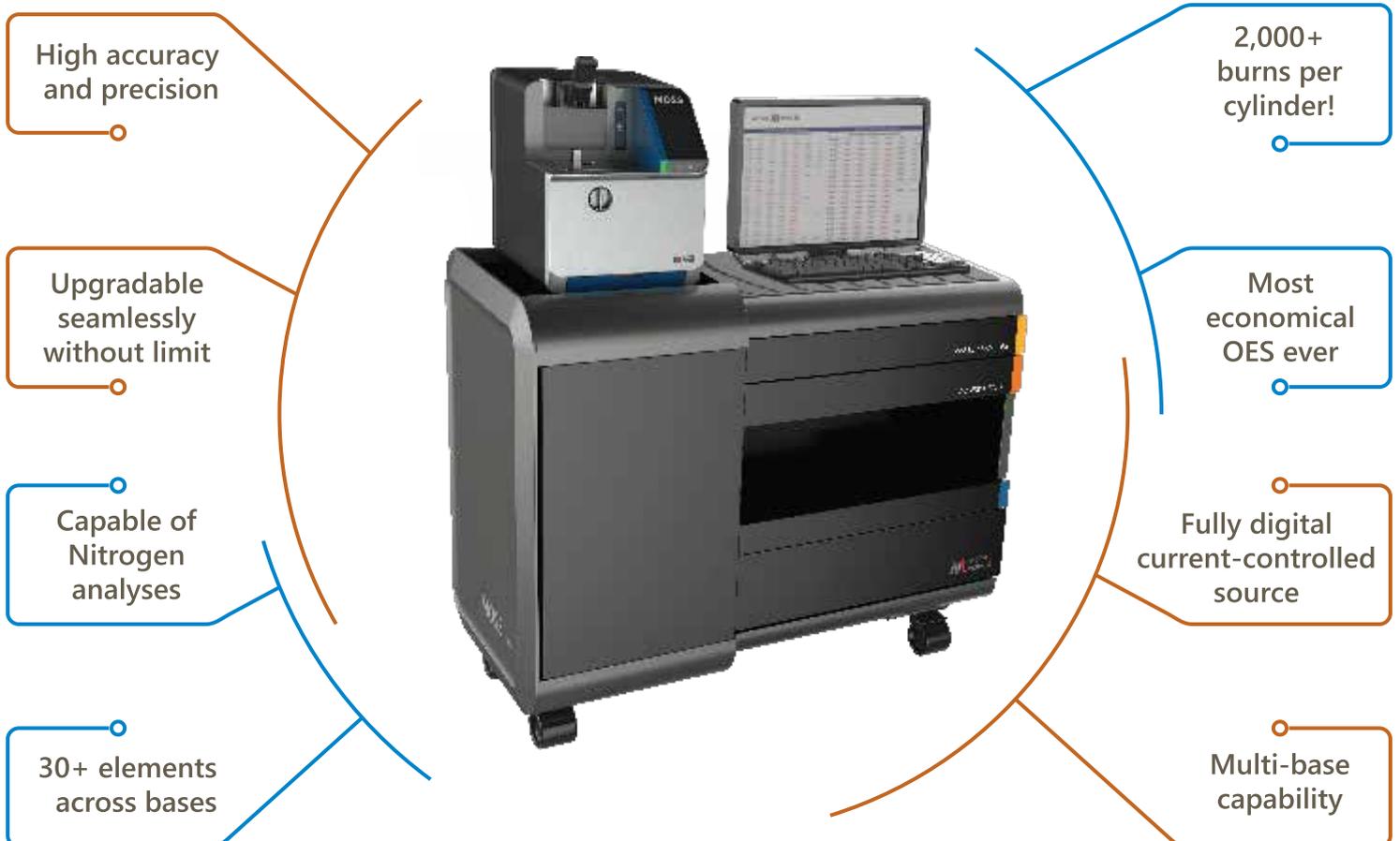
wish to have good backup units for their different workshops (Machining Centres, Forge Shops, Heat Treatment Workshops, Stockyards etc.) to enable them to take quick decisions and/or for ensuring that there are no mix-ups. It could also be used at In Gates for materials or at various points in yards or intermediate testing points!

Cast Iron / SG Iron

MOSS analyses all the required elements for CI/SGI including Mg, Ce and La – and goes even further, adding the benefit of Nitrogen analysis too! This makes MOSS the ideal unit for all manner of CI/SGI manufacturing firms.

Non-ferrous alloys

For those in non-ferrous alloy-making too, MOSS is the ideal instrument; analyzing virtually all key elements down to the required ranges and being both easy and very economical to acquire, operate and maintain, the MOSS is the ideal unit for both Production environments and as backup to larger OES like the **Metavision-1008i³** or the **Metavision-10008X**.



Now, every firm, however small can afford a truly powerful OES with phenomenal performance - and unparalleled quality and economy!

MOSS does not compromise;

every single system ensures it does not lag what would classify as "best of technology"

Any no. of bases, matrices

50 ppm LOD for C, S, P, N

Boron to 5 ppm (0.0005%)

Fully scalable; at-site!

High power and efficiency

For any spectrometer, the quality of analyses as well as the stability is very closely correlated with the quality of the power source – and the stability of the current discharge it provides. Unlike virtually any other entry-level model, MOSS carries a fully digital current-controlled plasma generation source with ratings that ensure the greatest level of flexibility. With ultra-granular computer-based control over each parameter of the discharge, the power unit ensures the highest levels of plasma stability and the ability to generate the ideal spectra for different applications. Designed for universal inputs of 90-270 V AC, this is also truly global.

Every Key Element – with ranges designed for practicality!

The MOSS covers key elements across applications and ensures genuine value-addition from analysis!

Fully scalable – even at Site!

MOSS is a completely new technology platform and is genuinely scalable – at each stage of its lifecycle! From selecting pack-level configurations at purchase to choosing add-ons at any point in the

MOSS' life cycle and even when the user grows beyond into MOSS+. MOSS genuinely offers users a system that grows as their needs expand to higher and higher levels.

Modular design

MOSS is fully modular in its build and features include benefits of low noise and easy access for maintenance and servicing. The system is easily accessible to engineers for servicing and to operators for routine maintenance tasks. The design also ensures that no sub-system is at risk during any activity. It has ethernet connectivity too.

Value-adding applications!

MOSS is equipped with the facility for seamless on-site element/matrix/base additions. This apart, it is also available with a full array manner of value-adding software including Melt Addition Programs, SPC, Grades' Libraries, CRM Library, ARQC and diagnostics too.

MOSS is also the lightest and most compact OES in the world. Its space efficiency gives it a volume 1 cu.ft. and a weight of just 15kg. It is easy to accommodate and to transport – literally under your arm!

Other Products from Metal Power

Metavision 10008X

The zenith of sensitivity



Metavision 1008i³

When excellence is not good enough



Metavision 1008i

Laboratory Powerhouse



Metavision 108NN+

Rugged and versatile thoroughbred



Mobile OES

High performance on wheels



H SCAN

Rugged, accurate & economical



Argon Purifier+

For Better Analysis



CleanSharp

The Brushless Wonder



Wire Adaptors



Sampling Mould



Sample Surface Preparation Machines



Certified Reference Materials



Proficiency Testing Services



Founded in 1987, Metal Power provides a comprehensive range of products, applications and services to meet the analytical needs of metal industries. Our product portfolio spans Laboratory Optical / Atomic Emission Spectrometers (OES / AES), Mobile Spectrometers, Hydrogen analysers for molten Aluminium, Certified Reference Materials (CRM), Sample Preparation Machines for spectrometers as well as a wide range of accessories.

Apart from the product range, Metal Power through its Laboratory Division also offers services in Material Analyses and Proficiency Testing for other laboratories. Today the Company boasts over 30 years of experience serving the needs of ferrous and non-ferrous metals industries and has a truly global presence, spread across more than 35 countries in 5 continents.

True pioneers in the field of CCD-based Optical Emission Spectrometers, our product philosophy is driven by the focus on offering a tailored model to meet every customer need – both analytical and financial. As an outcome, we offer the world's widest range of spectrometers – with each offering positioned to be the best-in-class in terms of features as well as on economic value.

Our stationary spectrometer range spans from the high-end R&D-grade **Metavision 10008X**, that delivers virtually every feature known in spectrometry, through the rugged, Laboratory-grade **Metavision-1008i3**, **Metavision-1008i** and **Metavision-108NN+**, to the entry-level **MOSS**.

The common denominator across all our offerings – products, applications and services – remains our commitment to deliver the highest level of quality, reliability and uptime, while also offering the lowest cost over the product lifecycle, through low acquisition costs backed by the highest quality of service and after-sales support to our customers – wherever they may be.



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