

**MOSS**

Compact and affordable

**ACCURATE,  
RELIABLE & SCALABLE  
AND ASTONISHINGLY  
ECONOMICAL!**

MOSS station

The logo for MOSS, featuring the word "MOSS" in a bold, white, sans-serif font, set against a dark blue rectangular background.

Compact and affordable

*MOSS* shows the pinnacle of every aspect of technology being applied to entry-level OES.

*MOSS* epitomizes our commitment to ensuring that every company should be able to afford quality. The path-breaking *MOSS* is smaller than a laptop and the lightest OES ever. Hardware and applications are fully modular, making it the most compact, scalable and yet powerful entry-level OES in the world – by a significant margin.



## Epoch-defining breakthrough

Metal Power has heralded a true technological breakthrough with the launch of *MOSS* - the most economical spectrometer ever made. 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

A *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 (B) 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-1008i<sup>2</sup>* or the *Metavision-10008X*.

## 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.



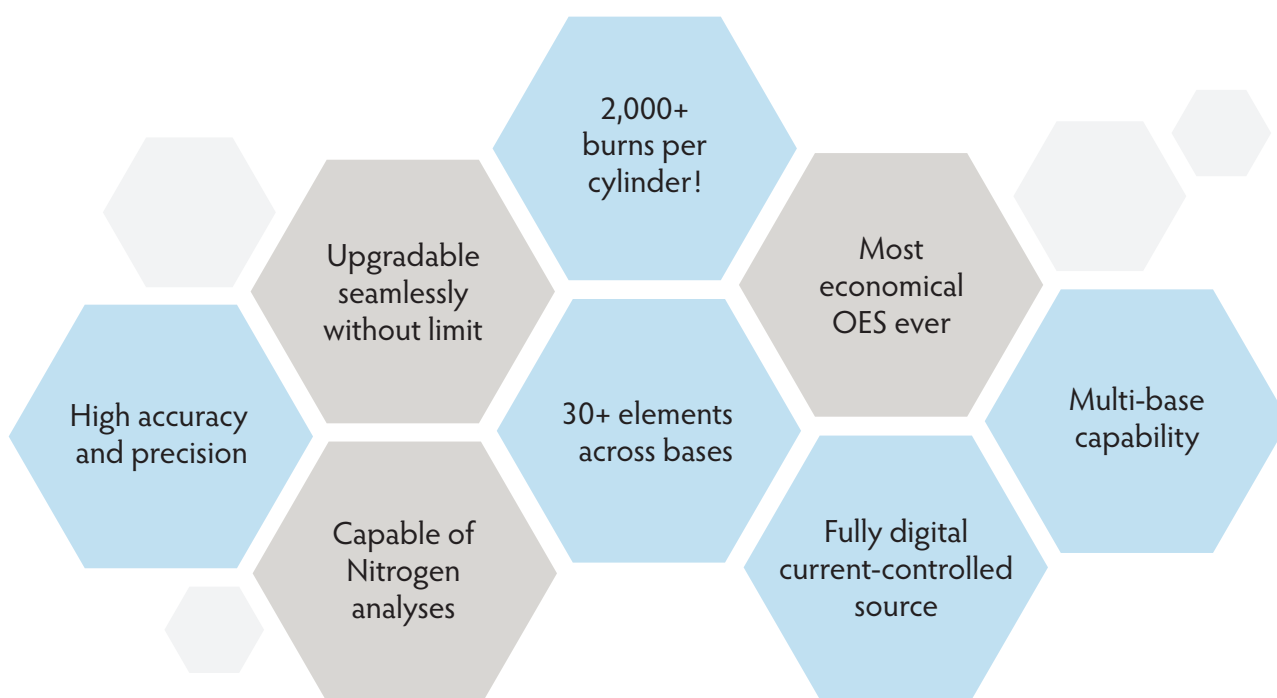


**MOSS**

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Scan for our full  
product details



## 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 of value-adding software including Melt Addition Programs, SPC, Grades' Libraries, CRM Library, ARQC and diagnostics too. *MOSS* also offers full support for *MetaCloud* and *MetaLib Pro*

*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!

## 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**

**Fully scalable; at-site!**

**Boron (B) to 5 ppm (0.0005%)**



## The Metal Power Advantage

**MOSS** is the only entry-level OES in the world that offers truly usable Nitrogen analysis in Steels. **MOSS** also offers wire analysis down to 2 mm diameter, foil analysis down to 0.5 mm thickness, full support for **MetaCloud**, Melt Addition Programs, **MetaLib Pro** and also custom applications as may be required by individual customers

## Highest Level of Customer Satisfaction

Our primary objective is to provide the industry with reliable and rugged instruments at affordable prices. In each category, Metal Power's spectrometers offer industry-leading performance, coupled with the lowest costs of ownership. We understand the criticality of our instruments to the operations of our customers and are committed to ensuring minimum downtime.

Our extensive team of dedicated and highly trained service engineers are equipped to handle service issues on our products. This is supported by an efficient call-logging system that is accessible to all customers via our phone lines, email or website.

For customers in the Indian sub-continent, Metal Power offers direct service support and a toll-free helpline (India-only) with a direct field-support team of 35+ in-house engineers spread across 17 locations. In all other markets, Metal Power assures the highest level of service through our authorized partners' engineers, with each trained in regular programs conducted by Metal Power.

All our engineers and partners are supported by our dedicated Central Helpdesk and also provided access to Applications Support when the situation so demands.



## A comprehensive ecosystem for your *MOSS*



## Our other Spectrometers





Founded in 1987, Metal Power provides a comprehensive range of products, applications and services to meet the analytical needs of Production and Quality Control/Assurance Laboratories. Our product portfolio spans Laboratory (Stationary) as well as Mobile Optical/Atomic Emission Spectrometers (OES/AES) for metals analysis, Rotating Disc Electrode (RDE) Spectrometers for analysis of oil samples, Sample Preparation Machines for spectrometers as well as a wide range of accessories and allied instruments that help optimize the analytical outputs of our spectrometers.

Today the Company boasts over 35 years of experience in spectrometry and has a truly global presence, directly and indirectly supplying and servicing our customer base across 35+ countries spread over 6 continents.

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

Metal Power Analytical offers both Stationary (Laboratory) as well as Mobile OES for metals analysis. Our stationary spectrometer range spans from the R&D-grade *Metavision-10008X*, that delivers virtually every feature known in spectrometry, through the Laboratory-grade *Metavision-1008i<sup>3</sup>* and *Metavision-1008i*, to the entry-level *MOSS* – the world's smallest, most economical and first truly scalable OES. In mobile OES too, we offer different models, each with a choice of probes – Arc, Spark, UV and combined probe options – to meet every user need.

The *Metavision-RX* RDE-OES offers the very best option for customers that wish to analyze oil samples for contaminants, additives and/or wear metals. Including the option of Sulphur analysis, the instrument offers the widest elemental coverage, and leverages all our expertise in the field of CMOS/CCD detector-based optics to offer low detection limits with exceptional accuracy and precision.



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