

# 3in1

Sample Preparation Machine



PRECISION SPECTROMETERS

## 3in1 Sample Preparation Machine

Ensure the highest quality of sample surface preparation for all your ferrous and non ferrous spectrometer samples

Grinding/Polishing

Turning (for soft samples)

Electrode Pointing

Available with AFVS\* option



Spectrometer sample preparation is a key step towards ensuring good analytical results. However, good the spectrometer, poor sample surface preparation can cause significant performance drops in analysis. With Metal Power's 3in1 Sample Preparation Machine, at last, exceptionally high quality sample surface preparation for your spectrometer samples can be achieved within your own lab and under your own control, with no compromise on quality, no requirement for any external parties and no anxiety of needlessly losing precious reference material. Imagine the savings!

The 3in1 Sample Surface Preparation Machine has been specially designed by Metal Power to prepare the best sample surfaces, ensuring quality good enough for analysis of even gaseous and deep UV elements at low levels (including Oxygen, Hydrogen, Nitrogen, Carbon, Sulphur, Phosphorus etc). Equipped with a grinding station (for hard samples) and also turning station (for softer materials), it is a single solution for all types of samples. It also features an electrode pointing feature also ensures electrodes can

be sharpened very precisely, to the correct angle reducing consumables cost too.

Aesthetically and ergonomically designed by practising spectrometrists the 3in1 is rugged, robust and reliable. It is designed to ensure it keeps the Lab environment totally clean and keeps noise and vibration levels to the minimum while making life simpler and better for spectrometer users.

### Salient Features

- Automated grit removal and blower
- Automated turning for samples
- Optimized for polishing electrodes to the precise specifications needed
- Lamp to observe turning
- Low capital and maintenance costs
- Auto feed, variable speed (AFVS) model available as optional

### Technical Specifications

- Power: 1 HP
- Input: 230V AC, 50 Hz
- Polishing Speed: 1,440 RPM
- Suction Motor: 2,880 RPM
- Chuck: 5"
- Chuck Capacity: 5-100 mm
- Disc size: 11" polishing discs
- Electrode angle: 60° or 90°

\*Specifications subject to change in line with product upgrades

Lifetime-free service when procured with a Metal Power OES\*

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 CMOS/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-1008i<sup>3</sup>** and **Metavision-1008i**, 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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