

**CIANFLONE SCIENTIFIC INSTRUMENTS CORPORATION** since 1984, is the world Headquarters in Pittsburgh, Pennsylvania, USA for the manufacture of laboratory/portable x-ray spectrographic instrumentation for on-site chemical analysis and coating thickness measurements, and related laboratory sample preparation equipment.



## MODEL 2501XBT PORTASPEC® MULTI-ELEMENT X-RAY ANALYZER

Portaspec WDXRF capable of performing multi-element sequential analysis in the range of Ti to U and is ideal for measuring coating weights of both chrome and titanium pretreatment.



Introducing the new 2501X Series, the Model 2501XBT Portaspec Bench Top X-Ray Spectrograph, similar to the original Model 2501 Portaspec, has an adjustable goniometer that allows the user to analyze up to five elements, preset sequentially one at a time. The element range is from element #22 Titanium to element #92 Uranium. An easy load two-position sample holder is an integral part of the instrument configured for analyzing liquids, powders, solids and thin films.

Samples are changed at the open end of the holder allowing a sample to be analyzed while one is being loaded.

The 2501XBT Portaspec comes complete with a built-in Computer and preinstalled Software for complete computer-controlled operation. Other Bench Top Portaspec versions are also available.

The Portaspec provides analytical solutions for many industries. These include some of the following:

**AUTOMOTIVE, BUILDING AND CAN INDUSTRIES.** These industries use sheet metal which is coated with a pretreatment for paint, over galvanized, tin and zinc coated sheet steel to eliminate unwanted oxidation/corrosion, and to aid adhesion for paint. The coating is in most cases a chromate or titanium base solution applied directly to the metal to a specific thickness which can be verified by the Portaspec in the lab or at the job site.

**COMPUTER DISK INDUSTRY.** Measurement of thin iron oxide and cobalt coatings on rigid disks, both manually and automatic for various disk sizes of 48mm, 65mm, 95mm or 130mm.

**MINING INDUSTRY.** At the mine site, total quantitative analysis of elements is available within the range indicated in the instrument's specifications. This includes all purpose-type mines and the measurement of iron in sand for the glass industry.

**MANUFACTURING.** Used in Quality Department to verify metal grades for both incoming and outgoing materials.

## MODEL 2601 PICA BLENDER MILL

The Pica Blender Mill employs a hand-pestle type of motion that achieves particle size reduction by a combination impact and mulling action. The mortar consists of a tubular vial approximately 2-1/2" long and 1" ID (other sizes on request). The tube is fitted with removable end caps for easy cleaning. End caps are held onto the tube by means of rubber "O" rings which gives a gas tight seal.



### FEATURES

- Grind or blend 3 samples
- Heavy duty construction
- Low vibration
- Quiet operation
- Shipped complete, ready to work

## MODEL 2701 ELECTRIC ARC BUTTON FURNACE

The Electric Arc Button Remelt Furnace will melt alloys up to approximately 3500° F. The sample charge can be in the form of slugs, cuttings, drillings, powders, etc. A charge of 50 grams of steel will provide a sample of 1-1/4 inch diameter and approximately 1/4 inch thick. Its primary use is for the preparation of spectrographic samples and in alloy research.



### FEATURES

- Most melting times 1 minute or less
- Violence of the arc provides mixing action
- Anodes available in Carbon Graphite and Tungsten
- Water cooled Copper Crucible tiltable for easy sample removal
- Power Source can be provided by customer

**NEW**

**Portaspec 2501X Series LE can now analyze light elements; specifically for the analysis of zirconium or phosphorus pretreatments on metal products.**

For more information, contact  
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