

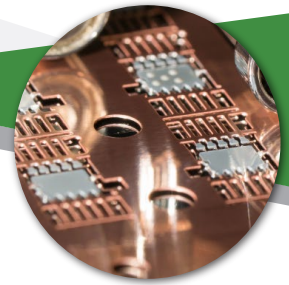
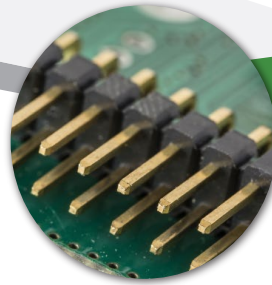
P SERIES XRF

High Precision Coating
Measurement System



Measures the widest variety of shapes, sizes, quantities

What's Distinctive:



Who Benefits

The P Series desktop XRF is best suited to customers who have:

- › Small parts/features such as fasteners, connectors, or PCBs
- › Requirements to test multiple samples or locations per new lot of material
- › The desire to automate measurement on multiple samples
- › Variety of sample sizes and applications
- › The need to meet the requirements of IPC-4552

Key Features

The P Series offers the flexibility of measuring a wide variety of sample sizes, shapes, and quantities. It is equipped with a precision programmable X-Y stage that offers several advantages over a fixed stage. Software interface allows the operator to modify measurement locations easily. System accommodates custom programs to automatically measure multiple sample locations. Larger part volumes can be tested in automatically, without operator intervention, thanks to Bowman's precise staging technology.

Configuration

The standard configuration includes a 4-position multiple collimator assembly, and a variable focus camera for measurement in recessed areas. Collimators and focal distances can be customized to the application. An SDD detector is included, along with our long-life micro-focus x-ray tube. Now available with two extended stage options.

BOWMAN

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Made
in the USA

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BOWMAN P SERIES XRF

Superior technically.
Supported locally.

Specifications

X-ray Excitation

50 W (50kV and 1mA) micro-focused W anode tube

Detector

Silicon solid state detector with 190eV resolution or better

Focal Depth

Multi fixed focal depths with laser

Video Magnification

30x Micro: Standard

55x Micro: Optional

7x Digital Zoom: Standard

Working Environment

50°F (10°C) to 104°F (40°C) and up to 98% RH, non-condensing

Weight

52-70kg

Programmable XY (WxD)

Table size: 330mm (13") x 381mm (15")

Travel: 127mm (5") x 152 mm (6")

Extended Programmable XY

Table size: 718mm (28.25") x 610mm (24")

Travel: 254mm (10") x 254mm (10")

Max Extended Programmable XY

Table size: 813mm (32") x 781mm (30.75")

Travel: 406mm (16") x 406mm (16")

Analysis layers and elements

5 layers (4 layers + base) and 10 elements in each layer.

Composition analysis of up to 30 elements simultaneously

Filters/Collimators

4 primary filters / 4 motorized collimators

Digital Pulse Processing

4096 CH digital multi-channel analyser with flexible shaping time. Automatic signal processing including dead time correction and escape peak correction

PC

Intel CORE i5 9th gen. desktop processor, SSD, 16GB RAM, Microsoft Windows 11 Prof, 64bit equivalent

Camera optics

1/4" CMOS-1280x720 VGA resolution

Power Supply

150W, 100~240 volts; frequency range 47Hz to 63Hz

Dimensions (HxWxD)

Internal: 140mm (5.5"), 305mm (12"), 330mm (13")

External: 457mm (18"), 457mm (18"), 610mm (24")

Element Range

Aluminum 13 to Uranium 92



Bowman global partners are certified annually, and maintain the highest standards of excellence and best practices.

The Bowman Partner Network

Bowman's Partner Service Network was established to facilitate large multi-national projects in the PCB industry. Today, it has become the model for XRF technical service worldwide, serving board shops, electronics manufacturers, automotive and aerospace OEMs, jewelry manufacturers, and contract metal finishers in all sectors.

The Bowman Partner Network enables XRF technical service experts worldwide to provide same-day response to every service, repair and upgrade requirement.



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