

# Faxitron<sup>®</sup> MX-20 Cabinet X-ray System

**The MX-20 Cabinet X-ray System** is utilized in scientific laboratories worldwide to produce highly detailed radiographs of seed and grain to inspect for viability, infestation, damage or contamination. The system is available with either our large 12 cm x 12 cm DC-12 camera or our smaller, less expensive 5 cm x 5 cm DC-5 camera. Both provide exceptional 10 lp/mm spatial resolution in contact mode. Magnification allows for spatial resolution of up to 50 lp/mm. The 20  $\mu$ m nominal focal spot and up to 5X additional geometric magnification provide ultra high-contrast and high spatial resolution images. If a larger field of view is required, the MX-20 can be used with a CR plate and small, upright CR reader to obtain a field of view up to 10" x 12".

**Small and Portable.** The entire system – self-contained x-ray unit, workstation, monitor, mouse and keyboard – is housed on a heavy-duty mobile cart and can be quickly and easily relocated as needed. The MX-20 is also available as a stand-alone unit which requires a minimal amount of space.

**Easy to Operate.** The MX-20 is extremely easy to operate. Simply place the specimen in the chamber, close the shielded, safety-interlocked door, and activate the x-ray. Our advanced DX 1.0 software with ImageAssist™ and Automatic Exposure Control automatically selects the appropriate exposure time and kV settings for the specimen. Other important features include a post-image processing suite to automatically window-level and sharpen the image; Automatic Contrast Enhancement to provide improved depth and structure; and Faxitron on Call™ for real-time, remote system support.

## MX-20 System Specifications

Energy range	10-35 kV
Tube current	300 $\mu$ A
Focal spot size, nominal	<20 $\mu$ m
Window filtration	0.01" beryllium
X-ray beam angle	40°
Active Imaging area DC-12 camera DC-5 camera	12 cm x 12 cm 5 cm x 5 cm
Resolution	Up to 50 lp/mm (10 lp/mm contact mode)
Typical image acquisition time	15 seconds
Workstation monitor	19 in.
Power	100-250 VAC, 50/60 Hz, 400 VA
Dimensions, External	24" W x 24" D x 66.5" H (61 cm x 61 cm x 169 cm)
Dimensions, Internal	14" W x 16" D x 19" H (35.6 cm x 40.6 cm x 48.3 cm)
Weight	150 lbs. (68.2 kg)
Weight including cart	360 lbs. (163.7 kg)

All specifications are subject to change without notice.

## The Benefits

- Superior radiographs compared to those generated by conventional x-ray systems
- The small focal spot x-ray tube and cabinet design enable up to 5X geometric magnification which is necessary for detailed inspection
- Improved turn-around times enhance laboratory throughput



MX-20 shown with optional cart

**faxitron x-ray**

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All Faxitron systems have shielded cabinets and utilize redundant safety interlocks. No NRC site licensing or reporting is required. They are certified to comply with standards set by the U.S. Food and Drug Administration Center for Devices and Radiological Health, (21 CFR-1020.40). The MX-20 is classified by Underwriters Laboratories Inc. in the U.S. and Canada with respect to electrical fire, shock, and mechanical hazards. 0002-041/Rev A