

PORTABLE X-RAY BETATRON



7.5MeV Model
For illustration purposes only

PORTABLE X-RAY BETATRON SYSTEMS

PIPELINE CRAWLERS • BETATRON PORTABLE X-RAY • DIGITAL RADIOGRAPHY

JME portable Betatron systems are a range of compact circular electron accelerators producing a high energy directional X-Ray beam. The Betatron systems are easy to assemble, operate and maintain. They contain no moving parts or cooling liquids so maintenance required on the systems is minimal. They are capable of producing radiographs of very high contrast, sensitivity and resolution allowing operators to meet the tightest inspection standard.

JME offer 4 systems within the Betatron range each with a different maximum energy, the outputs are 2.5, 6, 7.5 and 9MeV. The energy output on all systems is variable from 2MeV through to the maximum energy and adjustments can be made in 0.1MeV increments. The systems offer cost savings and a greater degree portability when compared with a Linac generators and provide greater flexibility for more mobile inspection tasks.

FEATURES

- Completely Portable
- Output energy selectable up to 9 MeV*
- Excellent sensitivity and resolution
- Penetrates upto 11.81 inch's (300mm) of steel, 39.37 inch's (1m) concrete*

*Dependent on Model

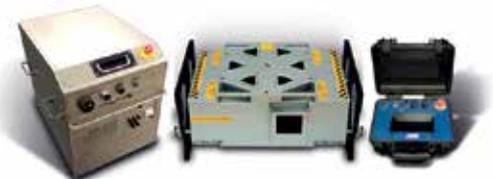
AVAILABLE MODELS



2.5MeV Portable X-Ray Betatron



6MeV Portable X-Ray Betatron



7.5MeV Portable X-Ray Betatron



9MeV Portable X-Ray Betatron



PROUDLY SUPPLYING THE NDT INDUSTRY FOR OVER 35 YEARS



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TECHNICAL SPECIFICATIONS

PXB 2.5

Peak X-ray Output	2.5 MeV
Dose Rate at 1m (3.3ft)	>0.7R/minute
Focal Spot Size	0.2 x 2.0 mm
Duty Cycle Radiation Beam	75% per hour
Beam Coverage	350 x 350mm @ 1m
Radiographic Sensitivity	Down to 1%
Supply Voltage	Single-phase, 110V or 220V, 50/60Hz
Power Consumption	1.0kW (4.5A @220V, 9A @ 110V)

PXB 6

Peak X-ray Output	2 to 6 MeV
Dose Rate at 1m (3.3ft)	>3R/minute
Focal Spot Size	0.3 x 3.0 mm
Duty Cycle Radiation Beam	75% per hour
Beam Coverage	250 x 250mm @ 1m
Radiographic Sensitivity	Down to 1%
Supply Voltage	Single-phase, 110V or 220V, 50/60Hz
Power Consumption	2.0kW (9A @220V, 18A @ 110V)
Min Dose (in air @ 1m per minute)	3R
Number of Pulses per second	200
Time Between Pulses	5mS
Pulse Duration	1µS
Dose Per Pulse (in air @ 1m)	0.250mR

PXB 7.5

Peak X-ray Output	2 to 7.5 MeV
Dose Rate at 1m (3.3ft)	>5R/minute
Focal Spot Size	0.3 x 3.0 mm
Duty Cycle Radiation Beam	75% per hour
Beam Coverage	250 x 250mm @ 1m
Radiographic Sensitivity	1%
Supply Voltage	Single-phase, 110V or 220V, 50/60Hz
Power Consumption	3.0kW (13.6A @220V, 27A @ 110V)
Min Dose (in air @ 1m per minute)	5R
Number of Pulses per second	200
Time Between Pulses	5mS
Pulse Duration	1µS
Dose Per Pulse (in air @ 1m)	0.416mR

PXB 9

Peak X-ray Output	4 to 9 MeV
Dose Rate at 1m (3.3ft)	>20R/minute
Focal Spot Size	0.3 x 3.0 mm
Duty Cycle Radiation Beam	50% per hour
Beam Coverage	250 x 250mm @ 1m
Radiographic Sensitivity	1%
Supply Voltage	3-phase (220V/380V), 50/60Hz
Power Consumption	5.0kW (7.6A per phase)



6MeV Model For illustration purposes only

SALES AND MANUFACTURING

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