

# PORTABLE X-RAY SYSTEMS



## ***X-Ray Betatron***

The JME Portable Betatron is a compact circular electron accelerator producing a high energy directional X-ray beam. Containing no moving parts except small airflow fans, and no circulating liquids, the Betatron is easy to assemble, operate and maintain. The Betatron also produces radiographs of very high contrast, sensitivity and resolution, meeting the tightest inspection standards.

## ***Features***

- Portable
- Output energy selectable up to 7.5 MeV
- Excellent sensitivity and resolution
- Penetrates 11.81 in (300 mm) steel, 39.37 in (1m) concrete

2.5MeV Portable X-Ray Betatron

**Item No. PXB25**

6MeV Portable X-Ray Betatron

**Item No. PXB6**

7.5MeV Portable X-Ray Betatron

**Item No. PXB75**

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## TECHNICAL SPECIFICATIONS

### PXB 2.5

Peak X-ray output	2.5 MeV
Dose rate at 3.3 ft (1 m)	6R per hour
Focal spot size	.008 x .039 in (0.2 x 1.0 mm)
Duty cycle	75%
Approximate operating time from battery pack	45 minutes
Battery pack	48V 12Ah
AC power input	110/220V 50/60Hz

### PXB 6

X-ray output energy	2 to 6 MeV
Dose rate at 3.3 ft (1 m)	3R per minute
Focal spot size	.008 x .039 in (0.2 x 1.0 mm)
Duty cycle	100%
Radiation beam spread angle	26°
Radiographic sensitivity	Down to 0.5%
AC power input	110/240V 50/60Hz

### PXB 7.5

X-ray output energy	2 to 7.5 MeV
Dose rate at 3.3 ft (1 m)	5R per minute
Focal spot size	.012 x .063 in (0.3 x 1.6 mm)
Duty cycle	75%
Radiation beam spread angle	22°
Radiographic sensitivity	1%
AC power input	115/220V 50/60Hz

