

WIRELESS OPTION COMING SOON



**PXB:9 PORTABLE X-RAY BETATRON** 

PIPELINE CRAWLERS • BETATRON PORTABLE X-RAY • DIGITAL RADIOGRAPHY

The **JME PXB:9** 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.

Interlock able to safety systems or supplied with a stand alone audio visual warning system. The Betatron produces radiographs of very high contrast, sensitivity and resolution, meeting the tightest inspection standards.

The **PXB:9** can replace cobalt isotope gamma sources which may not give acceptable quality and require costly periodic replenishment. Compared to cobalt, the Betatron's shot time is drastically reduced and the extremely small focal spot size provides a sharper, higher quality radiograph, thus increasing production rate and profit.

#### **APPLICATIONS:**

**JME**'s range of Betatron systems have been supplied for a wide variety of applications within many sectors of the NDT industry. Examples of the work we have previously supplied systems for include but are not limited to the inspection of:

- Large Forgings = Castings = Valves = Beams = Ships Hulls = Pressure Vessels
- Engine Blocks Thick Welds Composites Reinforced Concrete Buildings
- Bridges = Cargo = Security Scanning Solutions

9MeV Model For illustration purposes only

# TECHNICAL SPECIFICATIONS

Maximum X-Ray Output 9 MeV Dose Rate at 1m (3.3ft) >20R/minute **Focal Spot Size** 0.3 x 3 mm **Duty Cycle Radiation Beam** 50% per hour **Beam Coverage** 250 x 250mm @ 1m **Radiographic Sensitivity** Down to 1% Supply Voltage 3-phase, 220V or 380V, 50/60Hz Adjustment Range of Energy 2.0 to 9.0MeV in 0.1MeV increments **Power Consumption** 5.0kW, 7.6A per phase Standard Cable Length PSU to Radiator 5m - PSU to Control Panel 15m Mains Supply to Power Unit 5m Generator Recommended 10kVA Please contact JME for more information

#### DIMENSIONS AND WEIGHT

 Accelerator (Radiator)

 595 x 510 x 644mm
 160kg

 Power Unit
 640 x 320 x 590mm
 60kg

 Control Panel
 235 x 200 x 115mm
 1.5kg

ANNIVERSARY EST. 1986

PXB:9 'WIRELESS' SYSTEM COMING SOON



CONTACT JME FOR INFORMATION REGARDING SERVICE PACKAGES AND EXTENDED WARRANTIES

## PROUDLY SUPPLYING THE **NDT** INDUSTRY FOR OVER **35 YEARS**

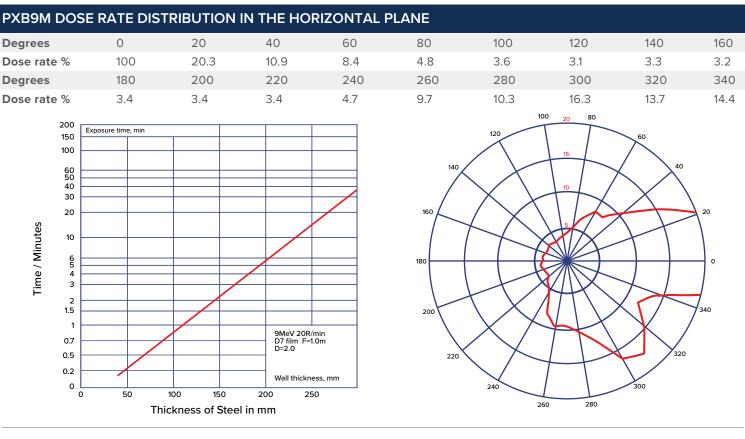


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### JME ADVANCED INSPECTION SYSTEMS VIEW MORE INFORMATION ABOUT THE PORTABLE X-RAY BETATRON SYSTEMS at www.jme.co.uk



### **FEATURES**

- Inert when not powered
- Instant Stop of X-Ray / Cut off
- CNSC Approved
- 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

REQUIRED RELATIVE DOSES IN COMPARISON WITH D7 FILM UNDER SIMILAR CONDITIONS	Film type	D4	MX5	AX	сх	PT-1	PT-4M
	Dose coefficient relative to D7	2.65	2.8	1.25	0.57	0.53	1.6

#### **AVAILABLE MODELS**



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