

CR2

PIPELINE CRAWLER X-RAY SYSTEMS



JME CR2 PIPELINE CRAWLER X-RAY SYSTEMS

PIPELINE CRAWLERS • BETATRON PORTABLE X-RAY • DIGITAL RADIOGRAPHY

JME Advanced Inspection Systems has a reputation as the market leader for the design and manufacture of high quality inspection systems. Our Pipeline Crawlers are self-contained and self-powered exposure vehicles, they are ideal for the inspection of a wide variety of pipelines ranging from 5.5" to 60" in diameter. JME Pipeline Crawlers are constructed using high grade materials to provide superior corrosion resistance, easy maintenance and an extended service life.

JME's unique Remote Handset operates across the entire CR2 Crawler range. This handset allows external control and monitoring of the Crawler whilst it is being operated within the pipe. The Handset is used to configure both the Crawler and X-Ray generator prior to placing it into the pipe. Using the handset the operator can monitor the status of the Crawler System in real time as well as adjust all settings whilst the Crawler is in operation. JME Crawlers integrate both water and end of pipe sensors to provide protection against damage and give the owner/operator peace of mind. Electronic circuits within the Crawler utilises microprocessor control allowing future software updates to be applied.

Our systems are unique within the industry, supporting X-Ray tubes from various manufacturers including ICM, Yxlon/Comet, GE, JME CXT and Balteau. JME also offer GAMMA projector integration onto the 10:CR2 (9.5"-48") Pipeline Crawler. We are pleased to be able to offer both the SENTINEL™ DELTA 880 and Oserix Dual 120 Gamma options to this device, making JME's range the most versatile pipeline Crawler Systems in the world*.

JME Crawlers utilise a magnetic control, Non-Isotope system, which is designed to replace the conventional isotope control system. There are no trailing leads and all commands are executed from outside the pipeline via either the magnetic transmitter (Magnetope) or remote handset. The units can be commanded to travel, stop and radiograph as required.

The position and direction can be monitored by mounting a low activity tracker isotope onto the crawler, or by using the non-isotope tracking system. The non-isotope tracking system is designed to comply with increasing restrictions for the transportation and use of low level isotopes.

Over the past 30 years, JME has built its reputation on innovation, quality, service, and commitment to our clients. As a company, JME thrives on customer satisfaction, which is why many of our customers have been using our services for nearly 30 years.

* For full compatibility list of X-Ray Tube/Crawler configurations, please enquire.

NEW CR2
REMOTE HANDSET
CONTROLLER



MODELS

6:CR2 X-RAY CRAWLER

Suitable for use in pipe diameters 5.4" to 18"

- JME CXT180 ■
- ICM CP160CR ■
- ICM SITEX C1802 ■

10:CR2 X-RAY CRAWLER

Suitable for use in pipe diameters 9.5" to 48"

- Balteau GFC 160C / GFC 200C / GFC 300C ■
- Yxlon/Comet EVO 200KV or EVO 300KV ■
- ICM SITEX 250KV or 360KV ■

24:CR2 X-RAY CRAWLER

Suitable for use in pipe diameters 22" to 60"

- Balteau GFC 160C / GFC 200C / GFC 300C ■
- Yxlon/Comet EVO 200KV or EVO 300KV ■
- ICM SITEX 250KV or 360KV ■
- GE ERESO 32 200 KV or ERESO 52 300KV ■

12:CR2 GAMMA CRAWLER

Suitable for use in pipe diameters 12" to 48"

- SENTINEL™ Delta 880 ■
- Oserix Dual 120 ■

Above pipeline dimensions are dependent on X-ray tube and crawler configuration

PROUDLY SUPPLYING THE NDT INDUSTRY FOR OVER 30 YEARS



JME
ADVANCED INSPECTION SYSTEMS

CALL OUR SALES TEAM FOR MORE INFORMATION
+44 (0)1502 500969

JME LTD. ELECTRON HOUSE, OLD NELSON STREET
LOWESTOFT, SUFFOLK NR32 1EQ UNITED KINGDOM

FIND JME ONLINE...

www.jme.co.uk

f /JMElimited | @JME_NDT | in jme-advanced-inspection-systems

VIEW THE JME PIPELINE CRAWLER ACCESSORY RANGE at www.jme.co.uk

TECHNICAL SPECIFICATIONS

6:CR2 5.5"-18" X-RAY CRAWLER

Pipeline ID diameter range	5.5" to 18" (140mm to 457mm)
Weight (Excluding X-Ray Tube)	9Ah: 71.42lbs (32.4Kg), 13Ah: 86.42lbs (39.2Kg)
Length (Excluding X-Ray Tube)	1500mm (including recovery ring)
X-Ray tube output options	JME CXT 180, ICM 160CR/C1802
Power source	Sealed Lead Acid Batteries 48V (9Ah or 13Ah)
Battery capacity	9Ah / 13Ah Depending on pipe size requirements
Travel speed	Up to 12m (40ft) per minute
Maximum angle of climb (Optimum Conditions)	25° from horizontal* / 46.6% *Depending on battery configuration
Mean positioning accuracy	±5mm
Operating temperature range	-20°C to +70°C

10:CR2 9.5"-48" X-RAY CRAWLER

Pipeline ID diameter range	9.5" to 48" (240mm to 1220mm)
Weight (Excluding X-Ray Tube)	265lbs (120Kg)
Length (Excluding X-Ray Tube)	1717mm (246mm Recovery Ring)
X-Ray tube output options	160kV - 360kV
Power source	Sealed Lead Acid Batteries - 120V
Battery capacity	24Ah
Travel speed	Up to 22 metres per minute
Total travel distance per battery pack (Including exposures)	3km
Motor rating	1x 0.25HP (182W)
Maximum angle of climb (Optimum Conditions)	≤20° / 36.4%
Mean positioning accuracy	±5mm
Operating temperature range	-40°C to +70°C

12:CR2 12"-48" GAMMA CRAWLER

Pipeline ID diameter range	12" to 48" (305mm to 1220mm)
Weight (Excluding Gamma Projector)	265lbs (120Kg)
Length (Excluding Gamma Projector)	1717mm (246mm Recovery Ring)
Gamma source	120 Ci Iridium 192
Gamma projector options	SENTINEL™ Delta 880 / Oserix Dual 120
Power source	Sealed Lead Acid Batteries - 120V
Battery capacity	24Ah
Motor rating	1x 0.25HP (182W)
Travel speed	Up to 22 metres per minute
Maximum angle of climb (Optimum Conditions)	≤20° / 36.4%
Mean positioning accuracy	±5mm
Operating temperature range	-40°C to +70°C

24:CR2 22"-60" X-RAY CRAWLER

Pipeline ID diameter range	22" to 60" (558mm to 1524mm)
Weight (Excluding X-Ray Tube)	441 lbs (200Kg)
Length (Excluding X-Ray Tube)	1160mm (1500mm including handles)
X-Ray tube output options	160kV - 360kV
Power source	Sealed Lead Acid Batteries - 120V
Battery capacity	24Ah / 35Ah
Travel speed	Up to 0.39m/sec max
Motor rating	2 x 275W continuous
Maximum angle of climb (Optimum Conditions)	≤30° / 57.7%
Mean positioning accuracy	±5mm
Operating temperature range	-40°C to +70°C

All specifications correct at time of printing - Please check for alterations before purchase



NON ISOTOPE CONTROL SYSTEM

- Suitable for wall thickness up to 40mm ■
- +/- 5mm Accurate positioning and motion control ■
- Rechargeable ■

NON ISOTOPE TRACKING SYSTEM

- Eliminates need for tracker isotope ■
- Improved transportation safety ■
- Improved crawler handling safety ■

12"-48" GAMMA PROJECTOR OPTIONS



SENTINEL™ Delta 880



Oserix Dual 120

CR2 TEST BOX

AVAILABLE NOW



SALES AND MANUFACTURING

+44 (0)1502 500969 • sales@jme.co.uk



ALL GOODS AND SERVICES ARE SOLD SUBJECT TO THE TERMS AND CONDITIONS OF JME. A COPY OF THESE TERMS AND CONDITIONS IS AVAILABLE UPON REQUEST.

ALL BRAND NAMES AND PRODUCT NAMES WHERE USED ARE ACKNOWLEDGED TO BE TRADEMARKS OF THEIR RESPECTIVE HOLDERS.

NOTE: All dimensions/weights exclude X-Ray Generators/Gamma Projectors