

# 10:CR2

## PIPELINE CRAWLER



NEW CR2 REMOTE  
HANDSET CONTROLLER



### 10:CR2 PIPELINE CRAWLER SYSTEM

PIPELINE CRAWLERS • BETATRON PORTABLE X-RAY • DIGITAL RADIOGRAPHY

JME 10:CR2 Pipeline Crawlers are designed to produce high-quality panoramic radiographs of circumferential butt welds in new pipelines with an Internal Diameter (ID) between 9.5" to 48" (240mm to 1220mm). These units have been developed and proven to work as a fully self-contained, self-powered exposure vehicle both onshore and offshore. Compatible with X-Ray generators of various manufacturers including Balteau, Comet/Yxlon and ICM. The system also integrates with Gamma projectors made by SENTINEL™ and Oserix. The JME Pipeline Crawler system is unique and the most versatile in the world.

JME's unique Remote 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. JME's 10:CR2 crawler also integrates both water and end of pipe sensors to provide protection against damage and give the owner/operator peace of mind.

### NEW 10:CR2 FEATURES

- Simple adjustment from X-Ray generator to Gamma projector
- Remote Handset with multi language 4.3" TFT LCD touch-screen display
- Processor controlled allowing for software upgrade
- Customisable 'Anti Run Away'
- Integrated Radio Recovery
- AMAX Auto Move After X-Ray
- End Of Pipe/Water Sensor Kit
- Simplified and improved Wheel/Axle change
- 60% increase in battery capacity allowing more exposures
- Single magnetic Detector Box suitable for 0-40mm wall thickness
- Variable Crawler Speed Control
- LED display on the rear of E-box for easier setup

### X-RAY GENERATOR OPTIONS



Balteau GFC 160C / GFC 200C / GFC 300C



Yxlon/Comet EVO 200KV or EVO 300KV



ICM SITEX 250KV - 360KV

### GAMMA PROJECTOR OPTIONS



SENTINEL™  
Delta 880



Oserix  
Dual 120

Pipeline dimensions are dependent on X-Ray generator

PROUDLY SUPPLYING THE NDT INDUSTRY FOR OVER 30 YEARS



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# 10:CR2 NEW FEATURES

## ■ CR2 REMOTE HANDSET

### MULTI LANGUAGE TOUCH SCREEN

JME's unique Handset allows external control and monitoring of the crawler whilst operating in the pipe, providing real time data on the crawler's activity. It allows the operator to enable/disable all features of the Crawler and X-Ray generator prior to operation, avoiding a lengthy, complex analogue configuration.



## ■ CUSTOMISABLE 'ANTI RUNAWAY'

'Anti Runaway' is a system which puts the crawler into reverse if it does not receive a signal from the Magnetope or Handset within a specified time period.

## ■ INTEGRATED RADIO RECOVERY

In the event of a malfunction within the pipe, the crawler's internal logic can be overridden by the handset to reverse the crawler out of the pipe.

## ■ AMAX - AUTO MOVE AFTER X-RAY

When AMAX is enabled, the crawler will locate under the Magnetope and be signalled to start the X-Ray. Once the exposure is complete the crawler will automatically drive to the next weld, increasing site efficiency.

## ■ END OF PIPE SENSOR KIT / WATER DETECTION SENSOR KIT

End of pipe and water detection sensors are fitted to the front and rear of the crawler. End of pipe sensors detect the Crawler's proximity to the pipe entrance and stop the system automatically, preventing accidental damage to the equipment. Water detection sensors stop the crawler if water is detected within the pipe. A handset message is displayed in both instances to alert the user.

## ■ SIMPLIFIED AND IMPROVED WHEEL/AXLE CHANGE

The revised axle change system allows for easier set-up in the field.

## ■ SINGLE MAGNETIC DETECTOR BOX SUITABLE FOR 0-40MM WALL THICKNESS

A single Detector Box, covering the full spectrum of wall thicknesses up to 40mm. Removing the need to change the Detector Box as the wall thickness increases.

## ■ RANGE OF GAMMA PROJECTORS

Easy/simple crawler conversion from X-Ray generator to Gamma projector.



## 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 ■

## TECHNICAL SPECIFICATIONS

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
Gamma projector options	SENTINEL™ Delta 880 / Oserix Dual 120
Power source	Sealed Lead Acid Batteries - 120V
Battery capacity	24Ah
Average exposures per battery pack	242
Total travel distance per battery pack (Including exposures)	3km
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

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

## SALES AND MANUFACTURING

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

VIEW THE JME PIPELINE CRAWLER ACCESSORY RANGE at [www.jme.co.uk](http://www.jme.co.uk)

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DS07/00121