

# 24:CR2

## PIPELINE CRAWLER

NEW CR2 REMOTE  
HANDSET CONTROLLER



### 24:CR2 PIPELINE CRAWLER SYSTEM

PIPELINE CRAWLERS • BETATRON PORTABLE X-RAY • DIGITAL RADIOGRAPHY

JME's **24:CR2** Pipeline Crawler is specifically designed for non-destructive testing of circumferential butt welds in tubular installations such as oil and gas transmission pipelines.

Our 2nd Generation **CR2** range is the world's most 'Technologically Advanced' NDT crawler system. The JME **24:CR2** Pipeline Crawler is robust and suitable for use in a wide range of challenging environmental conditions. Deployable in an Internal Diameter (ID) range between 22" (558mm) and a maximum of 60" (1524mm). Coupled with X-Ray generators from Balteau, Yxlon and ICM, this system can produce internal panoramic single-wall-single-image (SWSI) radiographs of very high quality.

The crawler can be commanded using JME's Magnetic Control System (Magnetope), or a conventional isotope control system, additional features are accessible using our brand new **CR2** Remote Handset.

### NEW CR2 REMOTE HANDSET FEATURES

- Complete set-up of Crawler and X-ray tube parameters
- Remote operation of X-Ray tube for increased safety
- Real-Time status of Crawler while operating in the pipe, includes:
  - X-Ray Tube kV / mA
  - Exposure Time
  - Temperature
  - Battery Levels
- Ability to enable/disable key features Including:
  - Anti-Runaway
  - Water Sensors
  - End of Pipe Sensors
  - Control System Set-Up
  - X-Ray/Gamma Control

### 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



**JME**  
ADVANCED INSPECTION SYSTEMS

CALL OUR SALES TEAM FOR MORE INFORMATION

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# 24: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.

## ■ PROCESSOR CONTROLLED FOR EASY SOFTWARE UPGRADE

## ■ END OF PIPE/WATER SENSOR KIT

## ■ VARIABLE CRAWLER SPEED CONTROL

## ■ LED DISPLAY ON THE REAR OF E-BOX FOR EASIER SETUP

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



## NON ISOTOPE CONTROL SYSTEM

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

## NON ISOTOPE TRACKING SYSTEM

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

## TECHNICAL SPECIFICATIONS

Pipeline ID diameter range	22" to 60" (558mm to 1524mm)
Weight (Excluding X-Ray Tube)	441 lbs (200Kg)
Length (Excluding X-Ray Tube)	1420mm
X-Ray tube output options	160kV - 360kV
Power source	Sealed Lead Acid Batteries - 120V
Battery capacity	35Ah
Motor rating	2 x 275W continuous
Travel speed	Up to 0.3m/sec
Maximum angle of climb (Optimum Conditions)	≤TBC°
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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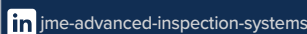
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**NOTE:** All dimensions/weights exclude X-Ray Tube

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

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