

# 6:CR2

## PIPELINE CRAWLER



**NEW CR2 REMOTE**  
HANDSET CONTROLLER

### 6:CR2 PIPELINE CRAWLER SYSTEM

PIPELINE CRAWLERS • BETATRON PORTABLE X-RAY • DIGITAL RADIOGRAPHY

The JME 6:CR2 Pipeline Crawler is specifically designed for non-destructive testing of circumferential butt welds in tubular installations such as oil and gas transmission pipelines.

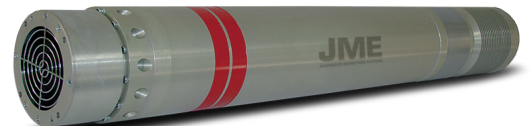
Our 2nd Generation CR2 range is the world's most 'Technologically Advanced' NDT crawler system. The JME 6:CR2 Pipeline Crawler is extremely compact and lightweight, deployable in an Internal Diameter (ID) range between 5.4" (139mm) and a maximum of 18" (457mm). Coupled with X-Ray generators from JME or 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
- Real-Time status of Crawler while operating in the pipe, includes:
  - X-Ray Tube kV / mA
  - Exposure Time
  - Temperature
  - Battery Levels
- Remote operation of X-Ray tube for increased safety
- 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



JME CXT 180



ICM CP160CR



ICM SITEX C1802

Pipeline dimensions are dependent on X-Ray Tube

PROUDLY SUPPLYING THE NDT INDUSTRY FOR OVER 30 YEARS



**JME**  
ADVANCED INSPECTION SYSTEMS

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# 6: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 Magnetoprobe 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 Magnetoprobe 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.

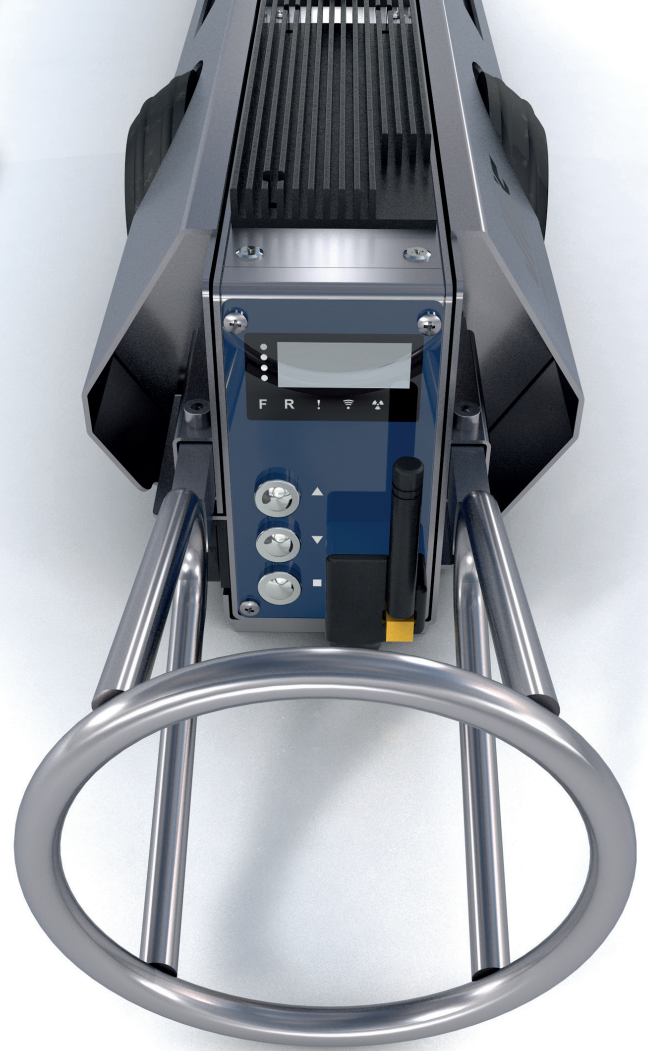
## ■ END OF PIPE SENSOR KIT / WATER DETECTION SENSOR KIT

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

## ■ VARIABLE CRAWLER SPEED CONTROL

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



## 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	5.4" to 18" (139mm to 457mm)
Weight (Excluding X-Ray Tube)	7Ah 73lbs (33 Kg), 12Ah 88lbs (40 Kg)
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 (7Ah or 12Ah)
Battery capacity	7Ah / 12Ah Depending on pipe size requirements
Travel speed	Up to 12m (40ft) per minute
Maximum angle of climb (Optimum Conditions)	25° from horizontal
Mean positioning accuracy	±5mm
Operating temperature range	-20°C to +70°C

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

## SALES AND MANUFACTURING

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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

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

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