

Self-Propelled: X-ray Generator JX-5 (Pulse Type)



JX-5 is installed with RIX-200 X-ray generator which has moving capability going forward and back. Utilized as one of the NDT methods for welds for gas pipelines, oil pipelines and petrochemical pipelines etc.

Product Outline Radiography Inspection X-ray / γ -ray has been utilized as one of the NDT methods for welds of gas pipelines, oil pipelines, petrochemical pipelines, etc. According to the different factors, such as place for welding work (factory or field) , pipe diameter, thickness of material, place for inspection work, etc., the radiography inspection has been made with an external X-ray source or an internal X-ray source. For improving the operating efficiency and the accuracy of inspection as well as maintaining the good safety management for inspection of thick wall pipelines with the size of 400A and 500A, model JX-5 was newly developed as a self propelling X-ray generator on the inner surface of pipelines having internal X-ray source to make radiographies of welded part. Its standard workable range is 30m, however, it can be extended up to 50m by using optional main cables, which enables a remarkable improvement of operating efficiency and ensures safety.

JX-5 also has a camera for monitoring the position of radiation point. Camera image is displayed on the LCD monitor in Driver attachment.

Power Source 1# 6 / (Z 1
 X-ray Generator (Driving Unit)
 Applicable Pipe 1 (up to A, 1 with extension legs)
 Travel Step mm penetration welding)
 Travel Distance Normal M (extendable up to 120m)
 Travel Speed ca. M/ min for horizontal position, No speed control function
 Driving Unit 3 DC motors in parallel operation
 Driving Motor Type HR-14-3002-B-SP Rating 60 ? -cm
 Camera B/ W camera for monitoring of exposed position (welded part)
 Brake Built-in brake for individual motor
 Status of Brake Open (free) at power-off



Size/ Weight Length ca. 780mm Weight ca. 27.2 ?

X-ray Generator Type RIX-200NM/ PC Rating 200KV 3mA

Controller

Monitor 5.6" LCD color Type CM-562 CAMOS

Breaker Ground-fault interrupter 2P-30A

X-ray Controller Type RIX-200NM/ PC

Size/ Weight

Outside Dimension 565(W) 280(D) 250(H) mm

weight 26.7 ?

Cable

Cable type

Combined cabtyre cable 20 wires coaxial

Tension reinforcement 4 Nylon rope, Tensile strength 250 ?

Weight 11.3 ? (30 m)

Output

Max, Rating

Tube voltage 200kV 100kV^ 200kV 5kV step

Tube current 3mA constant

Power Source AC180^ 240V

Focus Size 1mm 3.5mm

Beam Angle 12

20 360 panorama

X-ray penetration

Steel 20mm

(200kV x 5 minutes, density 2.0 Fuji 100Pb 0.03mm

FFD 600mm)

High-Voltage Circuit Grounded plate Self-rectifying

Insulation SF gas

Cooling Natural cooling of tube anode radiator

