

Who we are

ACTS is the preferred third-party provider for geotechnical engineering, materials testing, and consulting, and is the Local Sponsoring Group for the American Concrete Institute (ACI)'s programs in the Middle East.

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ACTS presents the most advanced technology in nondestructive testing using reputable and up-to-date equipment led by certified and well experienced NDT experts

Conventional Welding NDT

Liquid Penetrant, Magnetic Particle, Radiographic, Ultrasonic, Eddy Current, Visual and Infrared/Thermal Testing

Advanced NDT Solutions

Tube Inspection, Phased Array/ToF D Ultrasonic, Magnetic Flux Leakage, Guided Wave (LRUT) and Automated Ultrasonic Testing



Radiographic Testing



Nondestructive Testing Services



Advanced Construction Technology Services

Lebanon . Qatar . KSA

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What is Radiographic Testing?

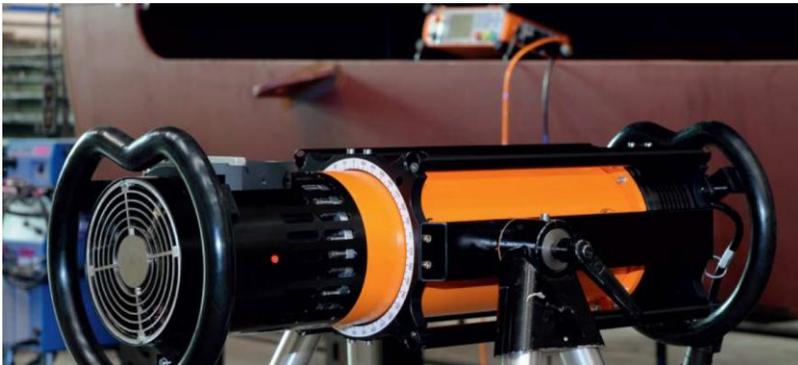
This type of testing includes emitting X-ray or gamma rays from a radioactive source to a film that is positioned on the opposite side of a weld (having a maximum thickness of 50 mm) or any concrete geometry (having a maximum thickness of 400 mm). The amount of energy absorbed is proportional to the density and the thickness of the materials. The interpretation of the film makes a comprehensive analysis related to the location of the discontinuities. The X-ray radiography is made using the Panoramic GE - ERESKO 52 MF4 device.

The advantage of this method is its ability to precisely reveal and measure the weld's and concrete's internal integrity without damaging its serviceability.

What Machinery Is Used?

In line with our Quality-rooted consulting services, we added to our equipment fleet the ERESKO MF4 which is a Reliable, Lightweight, Portable X-Ray Generator.

ERESKO MF4 - For the toughest of tasks



The ERESKO MF4 range of X-ray generators finds application throughout the industrial spectrum in the inspection of welds and in the examinations for structural integrity.



Applications

- Standard radiographic inspections, such as those carried out in fabrication yards in the oil and gas segment, in power plants, in the automotive sector and in general engineering
- Oil and Gas segments require inspections in extreme conditions, such as pipeline inspections - both offshore and land-based applications - where equipment have to withstand hostile environment like very low or very high ambient temperature or permanent exposure to salt-water, sand or dirt
- Structural integrity testing in the aerospace segment, where special materials, honeycomb sections and composites demand exceptional tube performance