

Non-Destructive Testing & Inspection System

CAPABILITY SHEET - RADIOGRAPHY + ULTRASONICS + EDDY-CURRENT + SURFACE NDT - ENGINEERED TO ORDER

THE SYSTEM

WHAT	A non-destructive testing system finds internal and surface flaws - cracks, porosity, voids, wall-thinning - without damaging the part, so a flawed one is caught first.
OUR ROLE	Neometrix engineers the shielded bay, the scanner, the tube rig, the surface bench, handling and software; the X-ray, UT and eddy-current instruments are bought-in.
STATUS	Engineered to order; configured to the part, the method and the standard. No specific delivered system is claimed on this sheet.

THE METHODS

VOLUMETRIC (RT/UT)	Radiography images internal porosity and voids on a digital detector; ultrasonics pulse sound in and time the echoes to locate and size internal flaws.
SURFACE (ET/MT/PT)	Eddy-current finds surface cracks and inspects heat-exchanger tubes from inside; magnetic-particle and dye-penetrant reveal surface-breaking cracks.
SPECIAL	Phased-array ultrasonics steers the beam for detailed imaging; active thermography finds debonds and voids in composite parts.

THE BUILD

SHIELDED BAY	The radiographic bay is a radiation-shielded, interlocked enclosure with part handling, AERB-compliant; the X-ray safety system is our build.
SCANNER + RIG	The automated ultrasonic scanner and the eddy-current tube-inspection rig - the motion, tanks, probe drives and fixturing - are engineered to the part.
INTEGRATE + REPORT	The imaging, flaw evaluation, acceptance to the standard and traceable reporting, with the automation and controls, turn instruments into a repeatable system.

DISTINCT & HONEST

STANDARDS	Inspected and accepted to ASTM E-series, ASME Boiler & Pressure Vessel Code Section V and ISO; personnel to ISO 9712; radiation to AERB.
OUR FRANCHISE	It is a test-rig, shielded-enclosure, handling and integration problem - our competence; the X-ray, ultrasonic and eddy-current instruments are bought-in.
ENGAGEMENT	Send the part, the method and the standard to sales@neometrixgroup.com for a clause-by-clause compliance matrix in two working days.

PROJECTS DESK

sales@neometrixgroup.com · +91 7777 876 876 · neometrixgroup.com

Neometrix Defence Limited · E-148, Sector 63, Noida, Uttar Pradesh, India