



NDT AND ULTRASONIC TESTING

Non-Destructive Inspection Solutions for Pipelines, Tanks & Precision Electronics

NDT (Non-Destructive Testing) and Ultrasonic Testing are essential inspection techniques that evaluate the integrity, structural soundness, and material properties of components, welds, pipelines, tanks, and electronic assemblies — without causing any damage to the inspected object. Using technologies such as X-ray radiography, microfocus X-ray imaging, ultrasonic wave propagation, and robotic visual inspection, NDT methods detect hidden defects, corrosion, cracks, porosity, voids, and dimensional variations that would otherwise lead to catastrophic failures, safety incidents, regulatory non-compliance, and costly downtime.

Torontech offers a comprehensive range of NDT and ultrasonic testing solutions engineered for the most demanding industrial environments. The ToronXPC™ X-Ray Pipeline Crawlers deliver high-quality radiographic inspection of welded joints in long-distance pipelines (up to 300 kV penetrating 42 mm wall thickness, climbing inclines up to 40°). The Storage Tank NDT System provides innovative, robotic, above-ground inspection of fuel and chemical tanks, dramatically reducing the cost and risk of confined-space entry. The Microfocus X-Ray Inspection System delivers ultra-high-resolution imaging for electronics, PCBs, BGAs, semiconductors, and precision-manufactured components — making the smallest internal defects visible and measurable.

Inspect with Confidence. Operate with Safety.

In every pipeline, every tank, every electronic assembly — the difference between success and failure comes down to what you can see inside. Hidden cracks, micro-corrosion, weld porosity, and undetected voids can lead to catastrophic failures, regulatory penalties, and reputational damage. Torontech's NDT and Ultrasonic Testing portfolio — from the ToronXPC™ X-Ray Pipeline Crawlers and the innovative Storage Tank NDT System to the precision Microfocus X-Ray Inspection System — gives you the imaging power, inspection accuracy, and operational reliability to find every defect before it finds you.

Don't gamble with the integrity of your critical assets. Equip your inspection team with the NDT platform trusted by oil & gas operators, electronics manufacturers, aerospace engineers, and infrastructure owners worldwide.

APPLICATIONS

Applications in Industries

- **Oil & Gas / Pipelines** — Weld inspection on transmission pipelines, refinery piping, offshore risers; corrosion monitoring on storage tanks and process vessels.
- **Power Generation** — Inspection of boiler tubes, turbine components, pressure vessels, and steam-piping welds in conventional and nuclear power plants.
- **Electronics & Semiconductors** — Microfocus X-ray inspection of PCBs, BGAs, micro-solder joints, chips, and integrated electronics for void, crack, and bonding-defect detection.
- **Aerospace & Defense** — Inspection of turbine blades, fasteners, composite parts, weld joints, and high-precision structural components for safety-critical applications.
- **Automotive** — Inspection of castings, welds, body-in-white joints, EV battery modules, and safety-critical electronic assemblies.
- **Petrochemical, Chemical & Water Utilities** — Storage-tank floor and wall inspection, pipeline integrity verification, and corrosion monitoring across process plants and utility infrastructure.
- **Construction & Heavy Industry** — Weld inspection of structural steel, bridges, pressure equipment, and large-diameter piping systems.

FEATURES

Why Choose Torontech for Your NDT Needs

With more than two decades of experience supplying advanced testing and inspection equipment to industries across more than 60 countries, Torontech delivers premium NDT performance backed by global expertise.

Comprehensive Single-Source Portfolio

From pipeline crawlers to tank-inspection robots and microfocus X-ray systems, Torontech offers one of the broadest single-source NDT portfolios available — simplifying procurement, training, and service across your entire inspection workflow.

Built for Harsh Environments

Every Torontech NDT system is built with military-specified electronic components, rugged construction, and automated safety alarms — ensuring reliable operation even in the harshest field conditions, from offshore pipelines to refinery storage farms.

Advanced Imaging & Detection

Torontech systems combine high-penetration X-ray sources (up to 300 kV), ultra-high-resolution microfocus imaging, and intelligent ultrasonic + robotic platforms — delivering the imaging sensitivity and defect-detection accuracy that safety-critical industries demand.

Global Expert Support

With offices and authorized partners across the USA, Canada, UAE, KSA, GCC, EU, India, APAC, Africa, and Latin America, Torontech provides expert installation, training, and service — wherever your inspection takes you.

Cost-Effective Value

Torontech delivers premium NDT performance at a transparent, competitive price point — eliminating the inflated cost structures of legacy brands while maintaining the accuracy, durability, and feature set demanding professionals require.



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