



Non-Man Entry Tank Inspection

Keep your storage tank in service while inspecting it. That's innovation. That's Intero.

Intero has pioneered non-man entry tank floor inspection deploying advanced robotic technologies. Since 1997, we have successfully inspected over 1000 storage tank floors with a wide range of robots that are fully regulated, compliant, and UL/ATEX approved. All our robots use state-of-the-art sensor technology, performing accurate ultrasonic bottom thickness measurements while the tank remains in service.

In-Service Compliance

Storage tanks should be regularly inspected to enable accurate planning of maintenance, avoid unplanned shutdowns, and can extend inspection intervals to increase the availability of your storage capacity.

Until now, storage tanks have normally been taken out of service for inspections such as tank bottom corrosion assessments and settlement inspections. But why open the tank for inspection when its integrity can be determined during operation?

Intero operates a suite of innovative inspection solutions that can be deployed while the tank remains in operation.

This allows storage tank owners to significantly reduce inspection costs to avoid downtime, cleaning costs, and (off-spec) product waste.

Our inspection solutions collect accurate data that gives insight into the integrity of storage tanks during operation; data that you could normally only obtain by taking the tank out of service.

Our vision is to help storage tank owners optimize asset space efficiently, use natural resources responsibly, and constantly maximize safety.

Tank Explorer Bottom Settlement Assessment

Tank bottom settlement measurements are commonly taken when the tank is out of service and empty. However, the same data set obtained from robotic online tank floor corrosion inspection can also be used to assess the tank bottom settlement. This will not only provide a more accurate and realistic settlement assessment with the product in the tank, but also provide a full, high-resolution settlement display of the tank bottom rather than the spot checks on selected locations using out-of-service inspection.



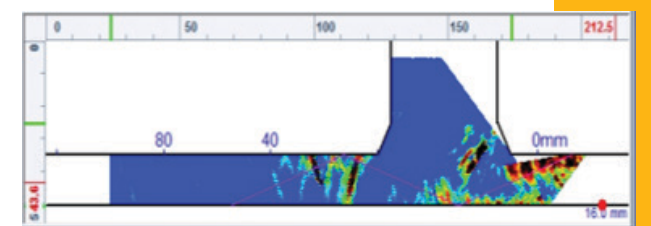
In-Service Visual Assessment

The Intero Quick Look® camera can perform a visual inspection of the internal tank space (structure, sludge) through the roof support entry port or manhole. The camera is explosion proof and offers extremely reliable, robust, and high-quality footage. This sort of camera inspection is often used before deploying the online inspection robot to assess accessibility, possible obstructions, and sludge levels in the tank. The Intero Quick Look® camera meets the requirements of ATEX Directive 94/9/EC Exd IIC T6 and CSA Class I, Division 1, Group CD; Class II, Division 1, Group EFG, T6 for safe use in explosive atmospheres.



In-Service Corner Weld Assessment

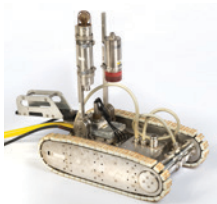
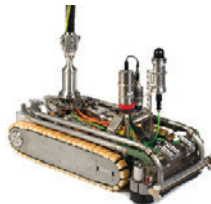
The shell-to-annular-corner weld is a critical element in a storage tank, and inspected in tank inspection programs. Intero's advanced ultrasonic phased array technology can assess this corner weld from the outside. A full crack inspection of the corner weld can be performed without needing to open the tank.



Our Suite of Innovative Solutions Keep Your Tank In Service

Intero has pioneered unmanned entry, tank floor inspection deploying advanced robot technologies. Since 1997, we have successfully inspected over 1000 storage tank floors with a wide range of robots that are fully regulated, compliant, and UL/ATEX approved. All of our robots use state-of-the-art sensor technology to perform accurate ultrasonic bottom thickness measurements while the tank remains in service.

The most suitable robot depends on the desired inspection coverage of the tank bottom. Our most advanced robots achieve 100% coverage of the accessible area. All our inspections are done according to industry standards including API-653 / EEMUA-159, and, where required, use intrinsically safe UL913 CLASS I, II, III / ATEX 114 and 153 certified equipment.

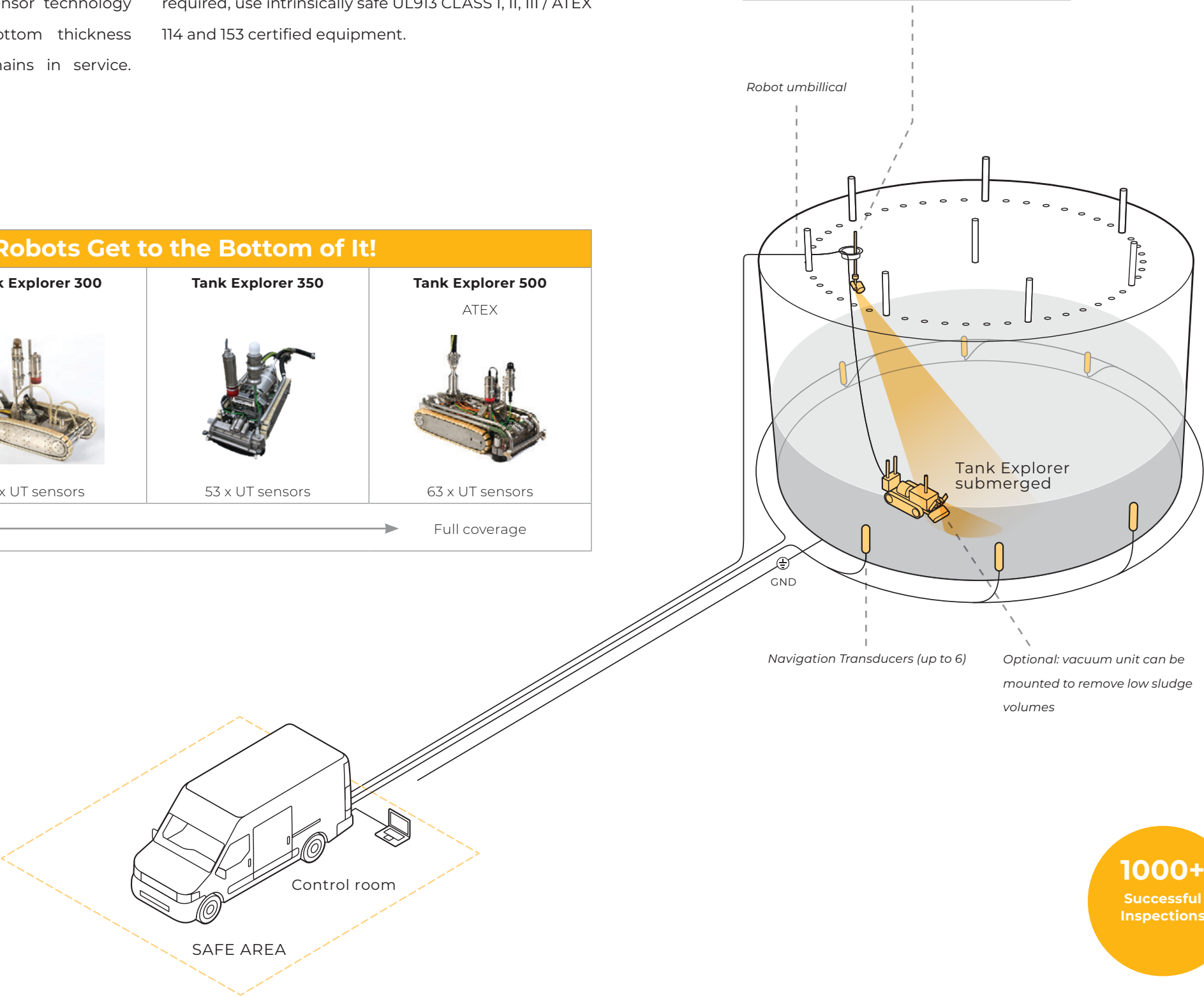
Tank Explorer: Let Our Robots Get to the Bottom of It!			
Tank Explorer Probe UL 913	Tank Explorer 300	Tank Explorer 350	Tank Explorer 500 ATEX
			
4 x UT sensors	8 x UT sensors	53 x UT sensors	63 x UT sensors
Spot check			Full coverage



The Quick Look® system allows you to inspect the internal mechanical roof construction and observes the robot progress where possible

Tank Explorer Results

A-Scans, x, y Coordinates
B-Scans, x, y Coordinates
Floor Elevation, x, y Coordinates
Sludge Removal (optional)



1000+
Successful Inspections

26 years
Comprehensive Experience

87.5 Yards (80m)
Largest Tank Inspected



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Elevating the Standard for Storage Tank Inspection

Intero Integrity Services is the leading specialist for keeping complex oil, gas, and petrochemical facilities clean, safe, well-maintained, and highly productive. Our unique range of industrial, inspection, and environmental services maximizes your asset availability.

Turnkey. Innovative. Optimized. We listen to customers constantly, so we understand what's important to them: the highest possible performance, protection, and predictability.

Ever-evolving solutions

