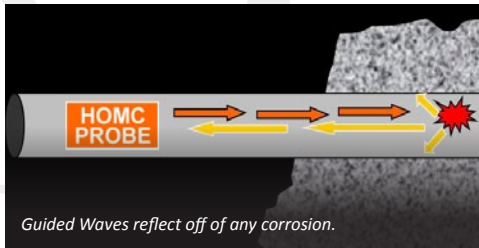




Guided Bulk Wave (GBW) Inspection Services



Guided Bulk Wave Inspection (also known as Higher Order Modes Clusters (HOMC) Guided Wave Testing) is a new, specialized non-destructive testing application that allows for examination of formerly inaccessible regions thanks to the use of short-range guided waves.

Guided Bulk Wave Inspection is a simple, Pulse Echo ultrasonic method that produces HOMC guided waves that reflect from any corrosion or other defects present in the examined areas. GBW's half-inch near field allows for corrosion and defect inspection in limited space and close proximity situations — like soil-to-air and wall penetrations; tank bottom chimes; pipe supports; tanks; and vessels.



In addition, GBW Inspection is versatile enough to inspect 1 1/2-inch piping or flat plate surfaces. It simply requires 6 inches of clean pipe for probe placement and it can produce high-resolution imaging and results when inspection area is within 3-4 feet — and all of that can be accomplished through 1/8 inch or less of coating. In these specialized situations, GBW Inspection can detect, image, record amplitude, size, and record X-Y location of corrosion and/or various defects.

TYPICAL APPLICATIONS:

- Wall penetration, soil-to-air, and concrete wall interface inspection
- Pipe supports, tanks, and vessels inspection
- Tank bottom Chime inspection
- Horizontal tank saddle supports
- Clamp supports
- 100% wall assessment

KEY FEATURES

- Extremely small near-field with compact probe
- High and multiple frequencies; non-dispersive nature
- Battery operated, similar to portable AE and UT testing systems
- Dual-mode (time- and location-based) data recording
- C-Scan data collection with A-Scan recording, playback and editing capabilities
- Rapid deployment, screening (1 square foot in 6 seconds), and defect sizing

BENEFITS

- Able to perform inspections in limited space, close proximity, and inaccessible areas
- Diverse application envelope with multiple size ranges (1½-inch pipe - flat plate)
- Maximum portability
- Flexible data recording and replay options
- High data and imaging quality thanks to versatile playback
- Increased productivity and efficiency of testing combined with detailed defect analysis

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