INSPECTION



www.hmttank.com

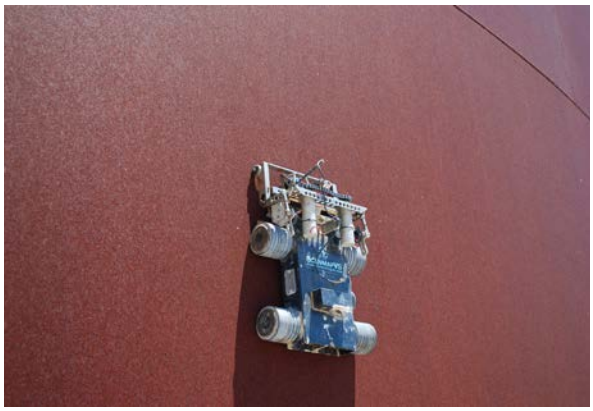


ABOUT

HMT's Inspection offers a complete line of NDE services and engineering evaluations per API Standard 653, API Standard 570, API Standard 510, STI Standard SP001, AWWA D100, ASME B 31.1/31.3 and ASME Section VIII Div. 2

Our certified inspectors, technicians and engineers work as a team to provide quality, comprehensive inspections and recommendations in a safe, reliable, efficient manner. HMT's inspection group will provide reliable, expedient, and cost effective services.

We understand the importance of accurate, quality reporting. All field inspection data, engineering analysis and evaluation of work performed is translated into the proper report format and delivered in a timely manner.









REACH — HMT's Leading Safety Program

RESPONSIBLE	Execute our activities in compliance with HSEQ practices
EMPOWERED	Power to STOP any activity if deemed unsafe or dangerous
ACCOUNTABLE	Take consequences of actions and behaviors
COMMITTED	Everybody in HMT is part of the team that drives improvement in HSEQ
HONEST	Open and honest reporting and communication on HSEQ

Safety at Home and at Work! Every day, Everywhere, Every time!

beyond ZERO = HSEQ

ADVANCED SERVICES

GUIDED WAVE ULTRASONIC TESTING

KEY APPLICATIONS

- Long runs of piping in pipe/sleeper racks
- Soil to air interfaces
- Underground piping/cased piping/earth dike crossings
- Point contact corrosion
- Retro PMI projects (detecting welds under insulation)
- Limited access piping (overhead lines)
- CUI Inspection





PHASED ARRAY ULTRASONIC TESTING

KEY APPLICATIONS

- ASME B31.1/31/3 piping construction projects
- ASME Sec VIII Div 2 pressure vessel construction projects
- API Storage Tank construction projects
- Pre-turnaround and turnaround in-service inspection

MULTI-SKIP PHASED ARRAY TESTING

KEY APPLICATIONS

- In-service inspection of the critical zone from the tank exterior
- Measuring corrosion under the shell to floor weld on a tank from the tank chime
- Detecting and measuring corrosion under pipe and tank supports, repads and blisters





AUTOMATED ULTRASONIC TESTING

KEY APPLICATIONS

- Corrosion mapping and flaw detection on tank shell and roofs, spheres, and vessels
- Corrosion mapping and flaw detection on piping down to 4”
- External in lieu of internal inspections
- Difficult to access locations down to 3” of clearance

DRONE INSPECTION AND IMAGING

KEY APPLICATIONS

- Tank rafter inspections
- Flare stack inspections
- Facility mapping
- Forward Looking Infared (FLIR)
- Offshore visual inspections



INSPECTION METHODS/TECHNIQUES

MFL/3D MFL MAPPING

MFL is the best method to evaluate a tank bottom condition quickly and cost effectively.





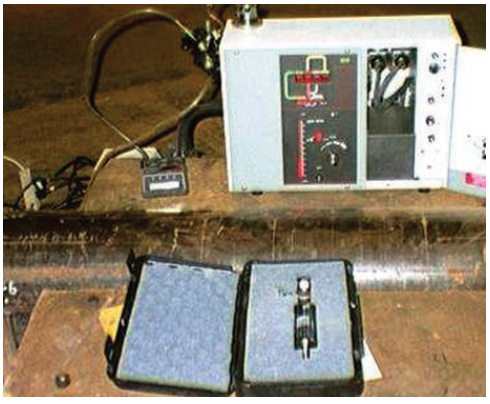
SLOFEC

Slofec is the ideal method to inspect thick film or fiber glass lined tank bottoms utilizing Eddy Current.

ROV FOR FIRE WATER TANKS AND OTHER EQUIPMENT

Remote Operated Vehicles (ROV) for NFPA-25 inspections.





HELIUM LEAK TESTING

Helium Mass Spectrometer Leak Testing has proven to be effective in finding small leaks, which may not be detectable with vacuum box and other NDT techniques.





INSPECTION SERVICES

HMT Inspection has the expertise and a wide range of innovative equipment and tools to help our customers utilize a forward thinking mentality toward asset integrity and optimize solutions to reduce environmental impact.

SOLUTIONS

- API Standard 653
- API Standard 570
- API Standard 510
- STI/SP001
- AWWA D100

ADVANCED SERVICES

HMT offers a comprehensive portfolio of advanced service methods, providing non-intrusive solutions to assist our customers in making effective decisions.

SOLUTIONS

- Phased Array Ultrasonic Testing (PAUT)
- Time of Flight Diffraction (TOFD)
- Multi-Skip Phased Array (Multi-Skip PAUT)
- Guided Wave Inspection (GUI)
- Electromagnetic Acoustic Transmission (EMAT)
- Automated Ultrasonic Inspection (AUT)
- Drone Inspection and Imaging

ENGINEERING

HMT provides client focused results utilizing a wide array of storage tank corrosion engineering and inspection services.

SOLUTIONS

- Drone Inspection and Imaging
- Rigorous Stress Analysis
- Corrosion rate calculations
- Finite Element Analysis (FEA)
- Fitness-for-service evaluations
- Similar Service Assessments
- Hydro Exemptions
- NACE Inspections
- State-specific environmental inspections
- Additional evaluations referenced in the API & STI standards

CALIBRATION

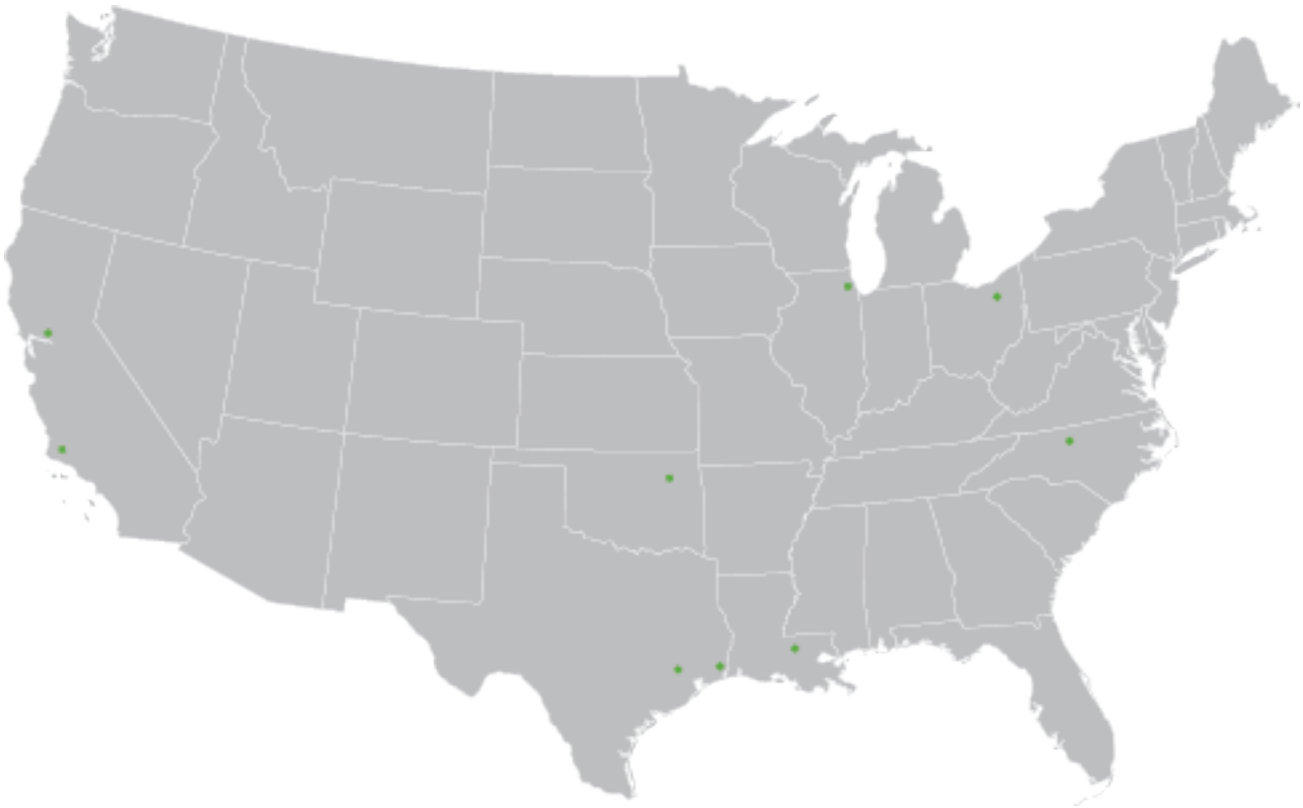
HMT provides tank calibration services, commonly known as “Tank Strapping”, which is the procedure for measuring storage tanks, barges, ships, or any liquid container to provide the necessary dimensions for capacity table calculations. HMT services are developed under the guidance of applicable API Standards for tank calibration.

SOLUTIONS

- Dry Calibration
- Liquid Calibration
- 3D Calibration
- Hydro Settlement Surveys
- 3D Verticality/Traditional Verticality

ADDITIONAL SERVICES

- 3D Facility Mapping
- Ultrasonic Thickness (UT)
- Magnetic Particle Testing (MT)
- Liquid Penetrant (PT) Inspection
- Visual Inspection (VT)
- Alternating Current Field Measurement (ACFM) Inspection
- Vacuum Box Testing
- B-scan
- Dike Surveys
- Settlement Surveys
- Rope Access
- QA/QC



INSPECTION MOBILIZATION POINTS

Houston, TX; Beaumont, TX; Baton Rouge, LA; Warren, OH; Sante Fe Springs, CA; Benicia, CA; Greensboro, NC; Tulsa, OK; Chicago, IL