FULL SERVICE TANK SUPPORT

ABOVEGROUND STORAGE TANK SOLUTIONS







www.hmttank.com

FULL SERVICE TANK SUPPORT

Over 40 years of Quality Products and Technical Support for Aboveground Storage Tanks

HMT is the global leader in aboveground storage tank solutions. We offer the highest level of innovative services, with a history of proven results to the tank industry. We are able to do this because our foundation brings four decades of experience to engineer your unique solution that always includes improved tank optimization, with a focus on making your operations safer, more efficient, productive, and profitable.

When you select HMT, you receive our world-class engineering, fabrication, installation, maintenance, and repair services for aboveground storage tanks. With offices and plants around the world and award-winning solutions, HMT will become your preferred supplier for global aboveground storage tank solutions.

INNOVATIVE SOLUTIONS



RELIABLE SERVICES



PROVEN RESULTS



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Floating Roofs

HMT offers the widest range of floating roof solutions in the industry, and our technical staff is trained to assist you in selecting the most economical solution to meet your project objectives. We have roofs specifically designed to handle the most demanding service environments, including corrosive services and high-dynamic-load environments. In addition, we offer multiple zero-deck-seam options for best available emissions control.



Unideck® Conventional Skin & Pontoon

- Most economical
- Fast installation
- Strongest perimeter of any conventional skin & pontoon



Aluminator® 1000 Heavy Duty Skin & Pontoon

- Designed for high cycles and flow rates
- Extruded beam-slot connections remove stresses on fasteners



Aluminator® WD Welded Skin & Pontoon AIFR

- Zero deck-seam emissions (US EPA)
- Heavy-duty structure
- Eliminates panel welds in the product



Hybrid/Stainless Steel Skin & Pontoon AIFRs

- Compatible with wider range of stored products
- Available in conventional or heavy-duty models



Aluminator® HFC Honeycomb Full Contact AIFR

- Most economical FC
- Robust structure
- Eliminates 99% of welds in the product
- NFPA 11 compliant for perimeter-only fire protection



Deckmaster Advanced Composite

- Compatible with virtually all stored products
- Zero deck-seam emissions (US EPA)
- NFPA 11 compliant
- Both IFR and EFR



Deckmaster API Separator Covers

- Corrosion resistant against separator contents
- Handles external loading with ease
- Fully walkable

Floating Roof Seals

HMT offers a full line of primary and secondary seals for both internal and external floating roof tanks. A variety of configurations, component sizes and material options are available for any customized application, stored product or specific tank configuration. All HMT floating roof seals are engineered with safety and durability in mind. HMT seals can be modified to handle rim-space anomalies due to tank verticality and roundness issues.



IFR Primary Seals

- Designed to prevent gapping
- Tailored to the tank
- Multiple material options
- Wax scrapers options available



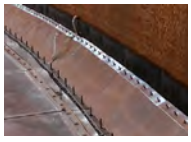
EFR Primary Seals

- Designed to prevent gapping
- Tailored to the tank
- Multiple material options
- Wax scrapers options available



SealMaster™ Gas tight Seals

- Designed to remain in contact with the tank at all times
- Tailored to the tank
- Standard working range of R(-X/+3X)



IFR Secondary Seals

- Designed to prevent gapping
- Low-profile options to gain capacity
- Multiple material options



EFR Secondary Seals

- Designed to prevent gapping
- Low-profile options to gain capacity
- Multiple material options



Retro-Fit Shoe Seals for AIFRs

- Designed to strengthen and add buoyancy to existing AIFRs to convert from wiper seals to mechanical shoe seals

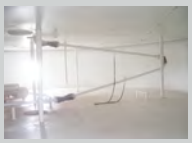


Foam Dams

- Bolt-on options
- NPFA compliant options
- API compliant options

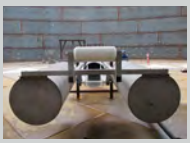
Roof Drains, Suction & Skimmer Systems

HMT's PIVOT MASTER® flexible joint system provides a superior solution to roof drains, suction and skimmer systems. This unique assembly consists of a specially designed composite hose with ANSI 150# raised-face flanges and steel side-plate structure.



Pivot Master® Floating Roof Drain

- Steel pipe drain system with flexible hose joints
- Handles a wide range of service conditions
- Maintains positive drainage



Pivot Master® Floating Roof Suction

- Engineered for any type of floating roof
- Compatible with stored product
- Product removal with no contamination



Pivot Master® Skimmer System

- Compatible with stored product
- Installed with all types of floating roofs
- Maintenance free, smooth controlled operation



Sumpmaster™ Sump Valve

- Uses buoyancy rather than line pressure for optimal backflow prevention
- Corrosion-resistant materials
- Protective cage prevents debris from clogging drain

Aluminum Domes

The HMT Aluminum Dome features lightweight, structurally efficient design in accordance with the latest edition of API 650, Annex G and the Aluminum Design Manual.



Domes for New Tank Construction

- Economical, lowest-emissions fixed roof
- Supports suspended IFRs (aluminum or composite)
- Can offer top-side capacity gains
- No painting required



Domes for Existing Tank Retrofits

- Lightweight for easy support by existing tank shells
- Ideal for emissions reduction or EFR/drain system decomissioning



Top-of-Tank Modifications

- Tank shell analysis and engineering
- Shell extension and platform modifications
- Steel work done by HMT crews

Emissions Control Solutions

HMT offers a comprehensive portfolio of products, strategies and expertise to reduce aboveground storage tank emissions to optimize above ground tank performance relative to emissions and regulatory compliance.



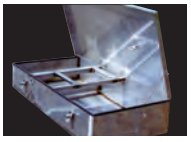
Enviro-Sleeve™ Gauge Pole Seal

- Vapor-tight seal
- Reliable, durable, maintenance-free
- Easy installation, custom-fit solutions
- Excellent for HAPs mitigation



Gauge Pole Float and Sleeve

- Traditional sleeve option to prevent emissions from slotted gauge poles
- Customizable for various diameters and gauge pole-ladder combinations



Gauge Pole Float Basin

- Specially designed covered basin which mounts to the top of gauge poles and allows gaugers to place floats cleanly and securely aside while gauging



Roof Support LEG SOCK™

- Multiple fabric options available

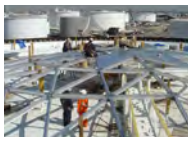
Product Installation

HMT's specialized product-installation crews and technical advisors are available to ensure project success. We offer direct installation, technical advisors, or post-installation inspection.



Dedicated Product Installation Crews

- Seal installers
- Dome installers
- Floating roof installers
- Drain, suction, skimmer and sumpmaster installers



Field Technical Advisors

- For installation performed by others, HMT can offer specialized technical advisors to provide guidance and support to installation crews



Post-installation Inspection

- For installation performed by others, HMT can also offer post-installation inspection services

New Tank Planning/Budgeting

HMT's technical sales staff can help you plan your new tank project, specifically in the areas of tank sizing, budgeting and emissions estimation.



New Tank Sizing and Emissions Estimates

- Working capacity vs. nominal capacity
- Soil bearing capacity and tank height guidance
- Emissions estimates



Budgeting and Schedule Planning

- Budget estimates for new storage tank projects
- Schedule considerations for various tank construction options



Tank Types and Configurations

- Guidance regarding various tank configurations and floating roof types
- Advantages and tradeoffs of options relative to project objectives

Tank Optimization Solutions

HMT's expertise and wide range of products help clients optimize working capacity, minimize emissions, optimize long-term cost of ownership and reduce the frozen working capital tied up in your tank heel.



Tank Emissions Reduction

- Existing tank assessment
- BACT configurations (full-contact and/or welded, suspended IFRs)
- Clear-span domes to eliminate column penetrations



Working Capacity Optimization

- Existing tank assessment
- Low-profile floating roof and secondary seal options
- Suspended IFR options



Dead Stock/Heel Reduction

- Existing tank assessment
- Floating roof modifications
- Suspension systems to reduce heel
- Tank bottom designs



Long-term Cost of Ownership

- Products designed for high cycles and heavy dynamic loading
- Compatibility with stored product
- Material selection for corrosion mitigation

Tank Inspections & Calibration

HMT Inspection offers a complete line of NDT services and engineering evaluation capability for Aboveground Storage Tanks, pressure vessels and piping systems to report and advise on applicable guidelines and compliance with API Standard 653, API Standard 570, API Standard 510, STI Standard SP001, AWWA, Underwriters Laboratories and other industry inspection standards.



Tank Inspections

- API Standard 653, STI Standard SP001, AWWA, fertilizer Institute, fiberglass/plastic standards
- Advanced NDT Technologies
- Timely and accurate inspection reports
- Nationwide network of API 653-certified inspectors



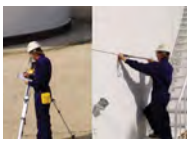
API 510 Vessel and 570 Piping Inspections

- Long range UT
- Low pressure storage spheres/ pressure vessels



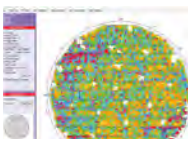
Seal Inspections

- Annual regulatory inspections
- 5-year regulatory inspections
- 10-year regulatory inspections
- Real-time repair capabilities



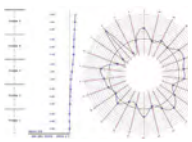
Tank Calibration

- For calculation of capacity charts (new or repaired tanks)
- 60+ years of experience
- All calibration work done in-house
- In accordance with API MPMS or ISO Standards



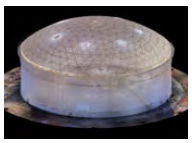
3D MFL Mapping

- Eliminates need to establish threshold prior to bottom scan
- 3D mapping of corrosion surfaces allows post-inspection analysis to determine optimum repair scope to balance repair cost and service interval



Verticality and Roundeness Surveys

- Available in both traditional (station-plotted) and 3D-laser-scanning
- Key data to ensure proper floating roof seal function
- Key data for EFRT dome retrofits

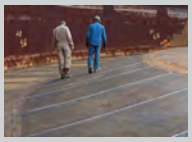


3D Laser Scanning

- 100% Shell surveys (footprint)
- Existing tanks prior to repair and post repair
- Designs for floating roof, seals, piping, and other structures

Tank Repair & Maintenance

HMT offers comprehensive repair and maintenance services for aboveground storage tanks in accordance with API Standard 653. With over 100 field crews mobilizing out of over a dozen project management offices positioned strategically throughout the U.S., HMT is one of the largest tank repair contractors in the industry. With best-in-class safety and quality programs, HMT is positioned to handle any job from minor repairs to complete tank reconstruction.



Bottom Repairs and Replacements

- Single or double bottoms
- Low-heel/plateau style bottoms
- Leak detection and liners



Shell Repairs and Replacements

- Shell repairs
- Shell course replacement
- Nozzles & manways
- Stairways



Floating Roof Repairs and Replacements

- Pontoon repairs
- Center deck repairs
- Seals and appurtenances
- Rolling ladders



Cone Roof Repairs and Replacements

- Columns
- Roof structure repairs
- Roof sheet repairs and replacements



On-site Project Management

- Dedicated resources for large plants with continuous repair and maintenance demand



Turnkey Project Management

- Decomissioning
- Cleaning and surface preparation
- Inspection
- Scope Development
- Repairs and recommissioning



Field Support Resources

- Project managers
- Safety managers
- Quality managers
- Superintendents

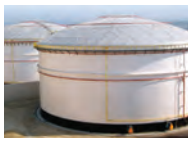
New Tank Construction

HMT offers construction of field-erected aboveground storage tanks (Carbon Steel, Stainless Steel, Duplex Stainless Steel) that conform to API 650, API 620 and AWWA D100.



Cone Roof Tanks

- API 650
- AWWA
- Column-supported
- Self-supported



Dome Roof Tanks

- API 650
- AWWA
- With and without floating roofs



Umbrella Roof Tanks

- API 650
- Self-supported steel
- Low-pressure applications



Open Top Tanks

- API 650
- Including diameters over 300'

Fabrication & Shop Painting

HMT offers fabrication services in multiple U.S. locations. Our Blackwell, Oklahoma shop provides turnkey engineering, fabrication and shop-painting services.



Fabrication Capabilities

- Shell, bottom, roof and annular plate
- Shop-built pontoons
- Rolling ladders
- Spiral staircases
- Thickened inserts
- Roof drain systems
- Tank appurtenances



Shop Painting Capabilities

- Shop blast & prime of shell, bottom and roof plate
- Automated paint booth



In-house NDT and Engineering

- Radiography, Shear Wave Ultrasound, Mag Particle, UT, PT, Lead Paint Removal
- Design, Detailing, Structural analysis and Calculations

HMT IS COMMITTED TO SAFETY

REACHING BEYOND ZERO

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

beyond ZERO = HSEQ

Safety at work and at home - Every day, Everywhere, Every time!

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