

Mechanical Solutions



LIQUIDMETAL™
Industrial Solutions



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Our Entire Team Is Committed To Safety

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EMR Under 0.65
1.5 Million+ Hours Accident Free
ISNetworld A+ Rating



We are committed to:

- Providing a safe workplace.
- Continually establishing and maintaining safety procedures and practices.
- Providing effective safety training.
- Consulting with professionals, management, and employee representatives to review and maintain health and safety in the workplace.
- Cultivating personal responsibility for safety.
- Promoting a safe and early return to work for injured employees.
- Identifying and managing all risks and hazards.
- Monitoring employees' fitness and health.
- Upholding health and safety regulations, and all relevant standards.
- Working together to eliminate injury.
- Accurate reporting and recording of injuries and accidents if they occur.



Who We Are

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Liquidmetal Industrial Solutions has been in business for over 40 Years.

Mechanical solutions, cleaning, and inspection services are provided as part of a complete predictive and preventative maintenance strategy to reduce downtime.

- Headquarters, Operations, Production and R&D Facility located in Chattanooga, Tennessee.
- Patented technology rights for amorphous materials.
- 2007 – Purchased Foster Wheeler Coating Division.
- 2014 – Mechanical Services Division added.
- 2020 – Reorganized company to better serve our partners.
- 2024 – Coatings Division and Materials Division sold allowing us to focus on the growing demand for Mechanical, Inspections, Sandblasting, and Weld Overlay reinforcing our dedication to delivering tailored, high-quality solutions to our industrial customers.
- Coverage throughout North America.
- Non-Union contractor providing solutions throughout the United States.



Mechanical Solutions

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For over a decade, Liquidmetal Industrial Solutions has demonstrated expertise in delivering successful mechanical solutions at key industrial sites across the United States.

We are experts at repairing or replacing virtually any component!

Plant Equipment

Boilers
HRSGs
SDAs
Digesters
Blowlines
Tanks
Piping/Valves
Evaporators
Slakers
Clarifiers
Live Bottom Bins
Pumps/Motors/Agitators
Stackers/Reclaimers

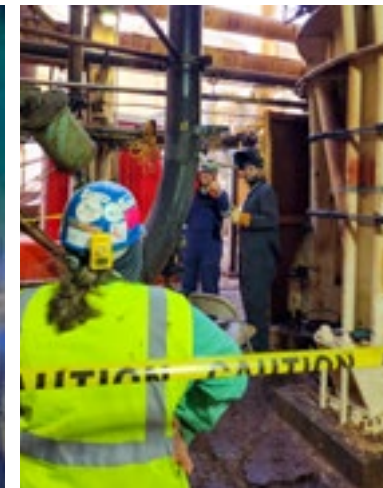
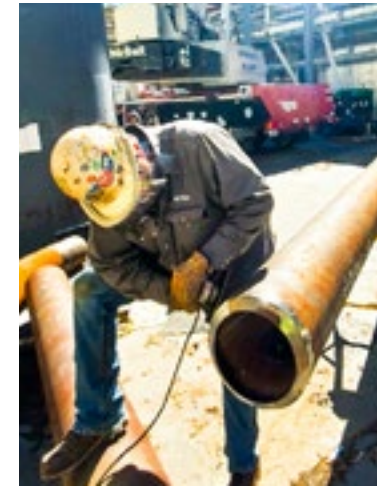
Certifications

NBIC R Stamp and ASME S Stamp
ASME Sect I Boilers
ASME Sect VIII Pressure Vessels
API 650 AND 653 Tanks



Specialties

Turnkey Outage Contractor
24/7 Emergency Response/Support
Project Management
Inspections
Waterwall Replacements
Specialty Pressure Part Welding
Economizer, Superheater and Reheater
Repairs/Replacement
Automatic Weld Overlay
Sandblasting and Ventilation
Carbon Fiber Wrap
Welding of Specialty Materials
High Chrome Alloy Welding



Our extensive tank experience, meticulous QA/QC oversight, comprehensive reporting, and unwavering commitment to customer satisfaction set us apart, ensuring you receive unparalleled service and top-quality solutions.

- Turn-Key repair, erection, and coatings (epoxies & paint)
- Shop and field fabrication
- Carbon fiber wraps for tanks
- Experienced in planning and executing complex repairs
- Single point of responsibility
- Less mobilization/demobilization costs



Liquidmetal Industrial Solutions successfully manages outages/projects with substantial numbers of various vendors and crafts.

- Develops a plan to complete the project on budget and on time.
- Provides safety manager(s) to ensure safety to all personnel including Liquidmetal Industrial Solutions, mill, and other craft vendors.
- Supervises timely execution of tasks.
- Conducts shift turnover meetings to communicate project safety and job status.
- Manages multiple vendors on site.
- Reviews manpower and supplies necessary to complete the project.



Abrasive Blasting, Carbon Fiber Wrap, Epoxy

Abrasive Blasting is the process of cleaning and preparing a surface using a hard media to remove debris, buildup, and foreign materials.

Carbon Fiber Wraps Our carbon fiber systems are ideal for tank or piping repairs in all types of industries, conditions, and material to protect against corrosion and erosion. They are used when unit/process shutdown or replacement is not an option.

Epoxy coating systems are used to seal the base metal to create corrosion and/or erosion-resistant surfaces. It can be applied as a spray-on or roll-on product.

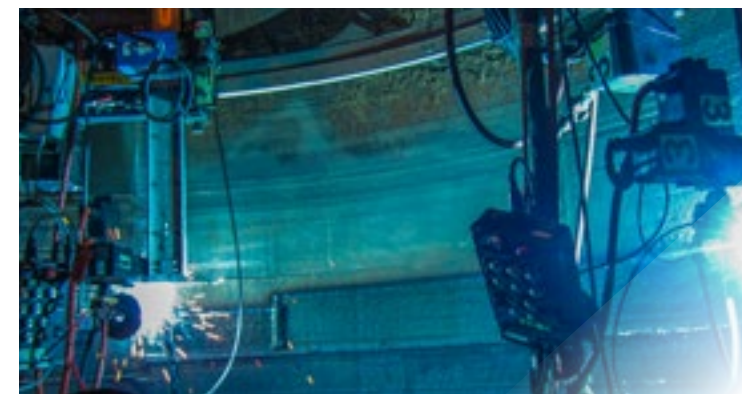


Weld Overlay (Metallization)

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Weld Overlay increases the base material's corrosion resistance and/or mechanical properties that metallurgically bonds the overlay material to the desired surface.

- 30+ Automatic MIG Overlay Systems in fleet
- Boiler, Tank, Pressure Vessel welding
- Vertical down, horizontal, flat, and overhead
- Automatic Height Control allows welding over uneven surfaces
- Weld thickness ranges from .050" to .250"
- Minimum 50% overlap
- Pulsed Gas Metal Arc welding process



Our level II NDT Inspectors are SNT-TC-1A Certified.

- Detect defects before they result in severe damage or non-compliance.
- Monitor company assets by non-intrusive methods.
- Ensure safe and reliable operations of your facility.
- Save time and money through fast and effective testing of your assets and equipment at every stage of their lifespan – from manufacturing to on-site operation.

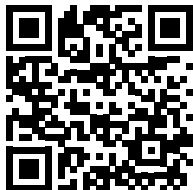
Applications

- Boilers
- Tubular air heaters
- Spreads
- Backpass
- Safe Duct
- Burners
- Steam and Mud Drums
- Flue and Air Duct
- Penthouse
- External Walk Down
- Visual and UT testing on coal piping
- UT inspection of silo/tank walls



- An innovative contractor providing “outside the box” solutions.
- Specialty turnkey services with hybrid teams, reducing the need for additional contractors.
- Ownership, limiting “finger pointing” and lost time/standby costs between contractors.
- Ability to complete multiple tasks in a space with different crafts.
- 24-Hour nationwide emergency call-out service.
- Quality workmanship with an impeccable track record for successful x-rays of pressure part welds.
- Seasoned and knowledgeable managers and supervisors with extensive experience at companies such as Babcock/TEI, Brahma, First Energy, Foster Wheeler, Duke Energy, TUV and WSI/SMS/AZZ, Basin Electric, and WestRock.





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