

Pulp and Paper Solutions



LIQUIDMETAL™
Industrial Solutions

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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.

- An innovative contractor providing “outside the box” solutions.
- Willingness to partner and put “skin in the game”.
- 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.
- 24/7 emergency response.
- Quality workmanship with an impeccable track record for successful x-rays of pressure part welds.
- Safety culture with over 1.5 + million hours without a lost time accident.
- 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.

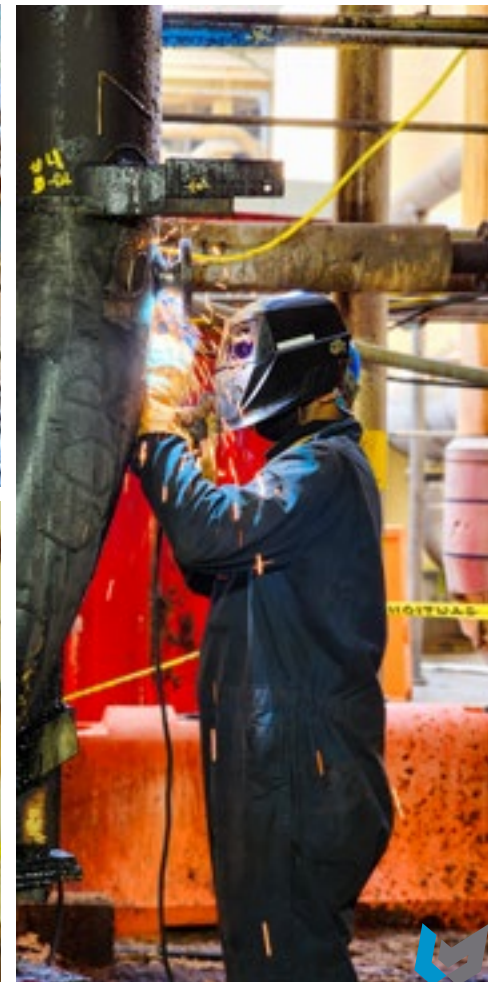
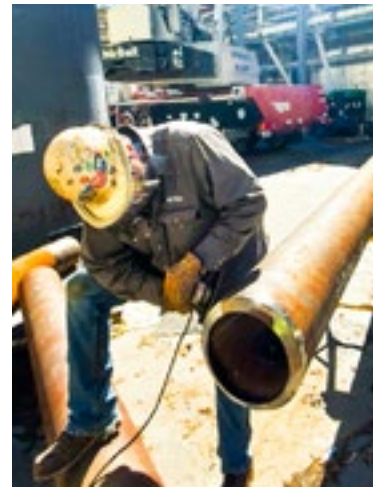


Who We Are

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 Coatings 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.
- Nationwide coverage.
- Non-Union contractor.



We offer a comprehensive range of solutions.

- 24/7 Emergency Response/Support
- Project and Outage Planning and Management
- Construction Management
- Repairs, Upgrades, and Retrofits
- API Tank Repairs/Replacement
- Inspections
- Project Reporting
- Procurement
- Digester Inspection, Maintenance, and Repairs
- Recovery Boiler Inspection, Maintenance, and Repairs
- Automated/Manual In-Field Weld Overlay
- Specialty Pressure Part Welding
- Smelt Spout Replacement
- Blow Tanks and Blow Lines
- Pump and Motor Alignment
- Valve Replacement
- Balance of Plant Maintenance and Repairs



Mechanical Solutions

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

Recovery, Combo, Coal and Gas-Fired Boilers
Batch Digesters
Blowlines
Blow Tanks
Tanks
Piping/Valves
Evaporators
Slakers
Clarifiers
Live Bottom Bins
Pumps/Motors/Agitators
Stacker/Reclaimer

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
24/365 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
such as high chrome alloys



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 wrap 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.

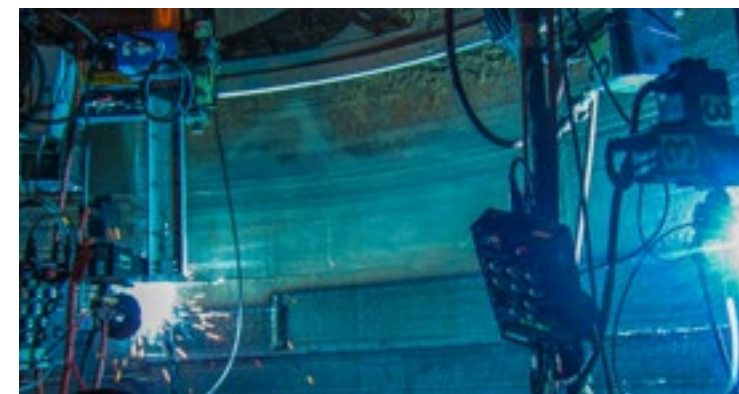


- Provide safety manager(s) to ensure safety to all personnel including Liquidmetal Industrial Solutions, mill, and other craft vendors.
- Conduct shift turnover meetings to communicate project safety and job status.
- Provide project managers that oversee and coordinate all craft vendors.
- Enforce all safety and environmental requirements including lock-out/tag-out, clearances, and confined space permits.
- Monitor Quality Control and Quality Assurance provided throughout the project.
- Scheduling, work scope, and budget from start to finish.
- Expertise to handle job modifications including adjusting the work scope, scheduling, prioritizing jobs, and proposals as discovery repairs are identified.
- Provide alternative cost-effective methods of repair for unexpected discovery repairs.
- Attend daily outage meetings and provide updates on work scope, safety, environmental, schedule, and budget.
- Enforcement of daily maintenance and housekeeping requirements.



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, and 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



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

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

Epoxy is a coating system 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.



**FOCUSED
SAFETY**

**EMR
0.65**

**COMPREHENSIVE
CAPABILITIES**

**FOCUSED
QUALITY**

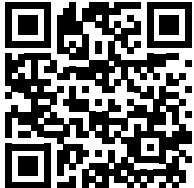
**1.5 MILLION+ HOURS
ACCIDENT FREE**

**ASSET
PROTECTION**





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Industrial Solutions



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