

MASTERTECH SERVICES, INC.

MTS™

COOLING TOWER SPECIALISTS





MASTERTECH SERVICES

COOLING TOWER SOLUTIONS.



COOLING TOWER **SPECIALISTS**

EXPERIENCE

QUALITY

OSHA TRAINED PERSONNEL

RELIABILITY

SAFETY EXPERTISE

NEW TOWERS

INSPECTION & REPAIR

THERMAL UPGRADES

STRUCTURAL IMPROVEMENTS

RECONSTRUCTION

REPLACEMENT PARTS

MasterTech Services™ (MTS) is a turnkey cooling tower manufacturer and installer who specializes in providing **unique and high quality construction services** for the cooling tower industry.

Experience is the Key.

We offer efficient and reliable service along with a knowledgeable support staff with centuries of **experience in cooling tower design, repair and maintenance.** Our cooling tower industry expertise enables us to offer the best solutions by the brightest innovators to satisfy any and all of your cooling tower needs.

MTS employs fully-trained cooling tower technicians who have constructed cooling towers of every design, type, and size. We have more experience than virtually any other company in performing repairs on towers from any and all manufacturers. In addition, MTS has exceptional parts and component buying power affording you the best price every day. We operate nationwide providing fast, efficient service to all of our clients. Our highly trained staff allows you to rest assured that your project will be **safely completed on time, within budget, and will be of the highest quality,** providing outstanding performance for many years to come.

MASTERTECH SERVICES, INC.

MTS™

COOLING TOWER SPECIALISTS



MASTERTECH SERVICES

NOBODY DOES IT BETTER.

MasterTech Services is **the recognized leader** in the wet- evaporative cooling tower industry. We design and construct new cooling towers, we repair and reconstruct existing cooling towers, and we inspect and maintain field-erected cooling towers nationwide.

From our humble roots as a simple labor services PEO (professional employer organization), to our current position as a full-service market leader, we take pride in constructing and maintaining field-erected cooling towers. When you hire MTS for your cooling tower needs, you hire the finest master technicians in the industry. In fact, MTS holds every employee to **the highest standard** when it comes to safety, craftsmanship and conduct. Our clients expect and deserve superior performance end-to-end, and that is exactly what they receive.

Our team of experts has **centuries of cumulative cooling tower experience**. This experience allows us to successfully provide on-time, on-budget cooling tower construction services to our clients nationwide. Our experience and success elevated us to become the **preferred provider of cooling services** to a who's-who of industrial facilities. Whether your project requires union labor, or skilled merit shop technicians, MTS has the available resources to provide you with **the best cooling tower solution** possible. **We're safe. We're fast. We're reliable. We're ready to work for you.**



MASTERTECH PEOPLE

MASTER TECHNICIANS.



At MTS our **people** make the difference. We employ the best, **most experienced cooling tower personnel** in our industry. From the executive team to our field staff, we continually undergo training and improvement. MTS has centuries of combined experience making us one of the most experienced cooling tower companies in the world. Our leadership is comprised of **seasoned cooling tower and industrial construction experts** who share their **knowledge regarding safety, engineering and construction** with the entire MTS staff. This open-learning and highly structured environment allows us to provide our clients with **well-trained, competent personnel who provide safe, timely, quality services for a competitive price.**

OUR PEOPLE - THE MTS DIFFERENCE








MASTER TECHNICIANS

MasterTech personnel are categorized based on their experience and abilities. Our extensive cooling tower construction experience enables us to provide the right technicians for your project.

All MTS personnel:

- Implement a safe working environment for all project employees
- Perform and participate in daily toolbox trainings
- Are involved in ongoing cooling tower construction training
- Maintain OSHA and other recognized safety certifications

	MASTER TECHNICIAN
	<ul style="list-style-type: none"> • Seven plus years cooling tower experience • Coordinates directly with the project superintendent • Trained to act as a liaison between the company and customer, along with reporting to the home office
	TECH 1 - PLATINUM TECHNICIAN
	<ul style="list-style-type: none"> • Five to seven years cooling tower experience • Crew foreman responsibilities and duties • Proficient with blueprints, structure erection procedures, mechanical, piping and specialty installations
	TECH 2 - GOLD TECHNICIAN
	<ul style="list-style-type: none"> • Three to five years cooling tower experience • In training to advance as a crew leader • Proficient with structure erection practices; competent mechanical, piping, specialty installations and refurbishments
	TECH 3 - SILVER TECHNICIAN
	<ul style="list-style-type: none"> • One to three years cooling tower experience • Competent with structure erection procedure and practices • In training mastering mechanical, piping, specialty installations and refurbishments
	TECH 4 - BRONZE TECHNICIAN
	<ul style="list-style-type: none"> • Beginning to one year cooling tower experience • Entry level • Currently being trained by Tech 2 in structure erection procedures and practices

MASTERTECH SAFETY

WELL TRAINED. SAFE.



MTS technicians are pre-trained in proper **safety policies and procedures**, cooling tower construction practices, mechanical installation, equipment handling and other **vital elements within the cooling tower industry**. This required training and planning helps us meet our client's schedule and allows us to meet or **exceed the requirements of each project**.

While the **ultimate success of a safety, health, and environmental program** depends upon the full cooperation of each individual employee, it is management's responsibility to see that effective training and education programs are employed to the best advantage. At MasterTech Services, **we take this responsibility seriously**, and we pride ourselves on our superior safety record.

OUR ATTENTION IS ON ACCIDENT PREVENTION



Our job specific safety training and regular project site safety inspections educate our employees on hazards present in the work place. We provide outstanding benefits to our clients including:

- Industry Safety Leader
- Superior EMR Ratings
- On-site Safety Audits/Inspections
- Low TRIR Minimizes Client Risk
- Annual Corporate Safety Manual Update
- Drug/Alcohol Testing
- Fall Protection
- Lock-out/Tag-out
- Daily Toolbox Meetings
- Safety Performance Bonus Program
- Pre-Job Safety Evaluation

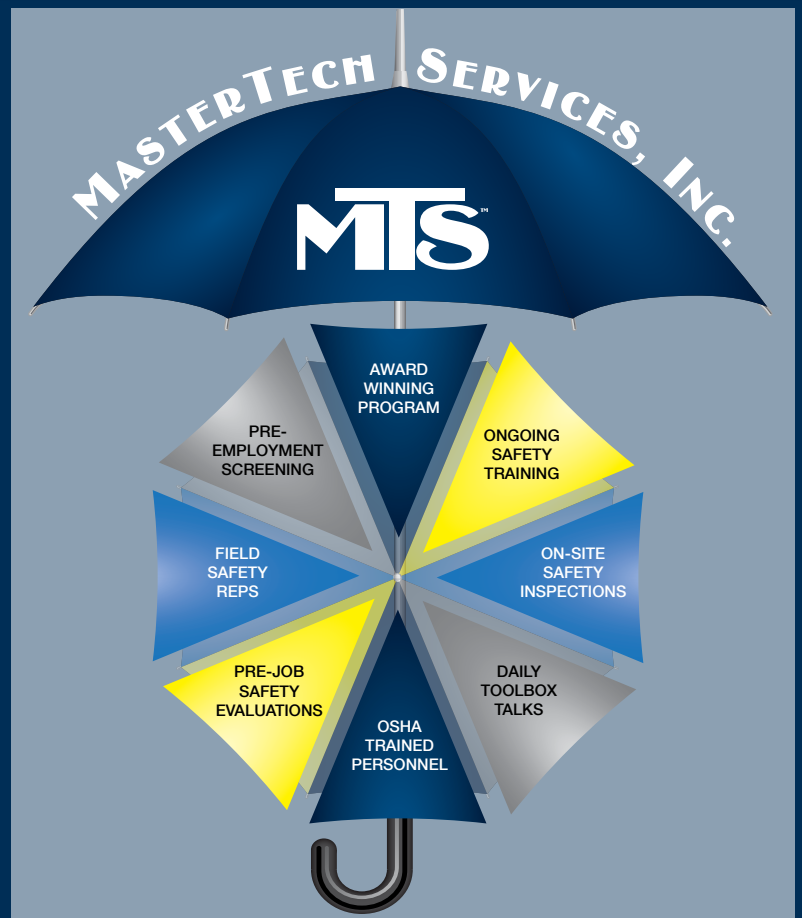
WHEN IT COMES TO SAFETY - MTS HAS YOU COVERED

ALL MTS SUPERVISORS MAINTAIN

- CPR/First Aid Training
- OSHA 30
- Recognized Safety Certifications
- Basic Orientation Plus (BOP)
- Confined Space
- Manlift and Forklift Operator

FULL-TIME SAFETY PERSONNEL

- Environmental, Health & Safety Personnel
- CSP-Certified Safety Professional
- Dedicated Corporate Safety Department
- Full-time Field Safety Representatives



NEW COOLING TOWERS

MTS is a recognized leader in the design and construction of new custom counterflow and crossflow towers. Whether its an online cell-by-cell replacement, a new tower on an existing basin, or a Greenfield project we will help you design and build the right tower for your facility. MTS offers engineering services and a complete proposal including detailed drawings, project cost, and time-line.

INSPECTION & MAINTENANCE

Cooling towers can become potentially dangerous environments if not periodically inspected and properly maintained. The MTS Master Inspectors can inspect your cooling tower for safety issues, structural integrity, and operating performance to ensure your tower is a fine-tuned system that protects you from hazards. Trust MTS to supply you with a complete report and budgetary assistance for safety, upcoming maintenance, and any necessary performance improvements.

REPAIR & RECONSTRUCTION

Cooling towers are a high-demand, integral part of any facility. Daily use can reduce operational performance and decrease efficiency resulting in increased expense and compromised production. The experts at MTS can help you evaluate the best-fit solution when it comes time to repair or replace your tower, usually while remaining online and not compromising productivity. If your facility demands optimal performance, look to MTS to provide quick, reliable, quality, and cost-effective solutions.

DISASTER/EMERGENCY RESPONSE

Cooling towers rarely suffer complete failure. However, when a natural disaster strikes the cooling tower is likely to be the first component in the critical path that will need repair. MTS has a proven track record of being one of the first contractors on-site after a natural disaster. With our strategically located facilities, we have the ability to provide inspectors, crews, and materials for immediate mobilization to your facility. Our volume inventory of in-stock materials gives our clients a competitive edge to get their towers back online in a timely manner.

REPLACEMENT PARTS

The one thing you can count on is that parts will eventually need to be replaced. A significant investment can occur in replacement parts, especially if they are needed quickly. MTS has O&M buying power, and we inventory many critical components in our strategically located warehouses nationwide. We can procure any cooling tower part you may need from the smallest stainless steel bolt to full gearboxes and fan stacks. At MTS we will assist you in procuring your specific part in a timely fashion for the right price.



MASTERTECH **SERVICES**

SERVICE. IT'S OUR NAME.



From the initial sales call to project management to hands-on field work, **MTS has the ability and knowledge to build, repair or replace any brand or make of cooling tower.** The minute you contact us we will begin providing you with premium service. Every **MTS employee is invested in the success of your project** and we see our client relationships as mutually beneficial partnerships. Our staff is dedicated to ensuring your project is **completed, on time, on budget, and most importantly, safely.**

MTS MANUFACTURING

PROFESSIONAL. BUILT TO LAST.



MTS manufactures and builds **all types of field-erected new cooling towers**. Our expertise ranges from rooftop HVAC cooling towers, to full-sized multiple-cell cooling towers used in the most heat-intense processes. **We build cooling towers for every industry** and are seasoned in upgrading and adding cooling tower cells to existing towers. Our experts will assist you in determining the best cooling solutions for your specific application. **When it is time to build a new cooling tower, put your trust in the experts at MTS.**



NEW COOLING TOWER CONSTRUCTION

MTS specializes in Counterflow and Crossflow evaporative cooling towers for every industrial application. Utilizing trusted cooling technologies, MTS will deliver a custom-designed cooling tower that provides guaranteed cooling to meet your specifications.



THERMAL UPGRADES - ADD CELLS

When facility demands for cooling exceed the capacity of the current cooling system a good solution is to upgrade. This can be accomplished by refurbishing the existing cooling tower to improve thermal capacity and constructing additional cells to increase performance.

NEW TOWER CONSTRUCTION ADDITIONAL CELLS REPLACEMENT

MTS specializes in new tower construction for virtually any type of Counterflow or Crossflow cooling tower. We supply towers that meet your requirements may it be an online thermal upgrade with additional cells or a free-standing new plume-abated tower. MTS has a full staff of qualified personnel ready to deliver the best solution for your cooling needs.

MTS SPECIALIZES IN NEW TOWERS

- Counterflow Cooling Towers
- Crossflow Cooling Towers
- Online Construction
- Quick Turnaround
- Cell-by-Cell Replacement Construction
- Additional Cells
- Disaster/Emergency Replacement
- Poor Water Quality
- High Performance
- CFU Double Wall
- Industrial HVAC
- Plume Abatement
- Low Noise
- Low Drift
- Extreme Wind and Weather Designs
- Water Conservation
- Completely Custom Construction



REPLACEMENT COOLING TOWERS

The experts at MTS can assist the facility in evaluating the costs of restoring an existing tower versus tower replacement. Many times it is more cost effective to replace a tower due to savings in capital, operating, and environmental expenditures over the life of an existing tower.

COOLING TOWER INSPECTION & EVALUATION

THERMAL & MECHANICAL PERFORMANCE EVALUATION

Inspections can improve safety, thermal performance, and the longevity of a cooling tower. It is important to carefully inspect each region of the tower at least annually. MTS Master Inspectors will address each section of the cooling tower and provide a detailed inspection report and formal proposal outlining current repair, non-critical repair, and potential issues that may need to be addressed in the future. Our inspectors have inspected thousands of cooling towers of every model and brand on the market. This process gives you the ability to have a full 360-degree view of the tower allowing for capital allocation and program budgeting.

PREVENTATIVE MAINTENANCE

The old adage, *if it's not broken don't fix it* rarely applies when it comes to fine-tuned industrial processes such as cooling towers. Cooling towers are vital components to any facility emitting extreme heat. It is important to regularly inspect and to perform preventative maintenance on your tower in order to avoid costly repairs and downtime, and to maintain optimal online performance. What you do today will affect your tower's thermal performance and overall process return on investment tomorrow, next month, and for many years to come. MTS will provide you with a detailed proposal breaking out the critical repairs to be made and forecasting of potential hazards that need to be addressed. MTS is a full service cooling tower company able to provide you with any service your cooling tower needs ranging from component parts to replacement towers.

MTS INSPECTION REPORT & PROPOSAL

	MasterTech Services, Inc.™ 691 Corporate Circle Golden, CO 80401 (877) 344-3072
MTS PROPOSAL P0711-499	
July 8, 2011	
John Doe Preferred Power 1234 Hwy 361 Houston, TX 78359	
Preferred Customer, Mr. Doe,	
MasterTech Services, Inc.™ (MTS) is pleased to submit a Lump Sum proposal for your cooling tower project. Our team possesses many years of combined experience in cooling tower design, engineering, manufacturing, repair, and construction. You can be assured that our team is committed to providing the best possible service in the industry. We value the opportunity to earn your business and are committed to meeting all of your project expectations.	
Enclosed, you will find a summary identifying the specific scope of work and values inclusive to the material and labor requirements, unless otherwise noted.	
Please feel free to contact us at any time if you have additional questions or need further clarification regarding this proposal. We sincerely look forward to the opportunity of serving you and Preferred Power on this project and for all of your future cooling tower needs.	
Sincerely,	
Director of Sales MasterTech Services, Inc. Office (877) 344-3072	



MASTERTECH **INSPECTION**

STAY INFORMED.



The **MTS Inspection Team** provides thorough cooling tower inspections performed by experienced **cooling tower professionals**. Our expertise ranges from smaller, roof-top industrial HVAC units to large, multi-cell geothermal cooling towers. Our inspection and evaluation services can be contracted on a single visit basis or periodically. Our clients understand **inspection and regular maintenance increase the longevity** of their towers, **improve performance, reduce operating costs**, and help to avoid costly repairs and unforeseen downtime.

REPAIR & RECONSTRUCTION SERVICES

MTS offers services and solutions for all of your cooling tower needs. Our in-house project managers and support team can deliver solutions for virtually every cooling tower repair or replacement available. No matter the time of year or complexity of the repair, MTS has the right solution for the right price, every time.

The following chart contains standard repairs we conduct regularly. Every project is unique and requires special attention. We are able to address any repair you may encounter in addition to the repairs listed below.

COMPONENT	CROSSFLOW	COUNTERFLOW
AIR MOVEMENT		
FAN DECK	- Wood to Wood Replacement - Wood to FRP Replacement - FRP Repair	- Wood to Wood Replacement - Wood to FRP Replacement - FRP Repair
FAN STACK	- Repair/Replacement	- Repair/Replacement
MECHANICAL		
FAN	- Repair/Replacement	- Repair/Replacement
MOTOR	- Replacement	- Replacement
GEARBOX	- Repair/Replacement	- Repair/Replacement
DRIVESHAFT	- Repair/Replacement	- Repair/Replacement
WATER CONSERVATION		
DRIFT ELIMINATORS (DE)	- Replace Clogged DE - Replace Loose DE - Repair Seals on DE	- Replace Clogged DE - Replace Loose DE - Repair Seals on DE
WATER DISTRIBUTION		
HOT WATER BASIN	- Repair/Replacement	
NOZZLES	- Replacement - Upgrade	- Replacement - Upgrade
WATER DISTRIBUTION SYSTEM		- Repair/Replacement - Upgrade
HEAT DISPLACEMENT MEDIA		
FILM FILL	- Repair - Clean - Replacement	
SPLASH FILL	- Replacement	- Replacement
INTERIOR STRUCTURE		
STRUCTURE	- Wood to Wood Replacement - Wood to FRP Replacement - FRP Repair	- Wood to Wood Replacement - Wood to FRP Replacement - FRP Repair
BASIN	- Basin Coating	- Basin Coating
EXTERIOR STRUCTURE		
LOUVERS	- Wood to Wood Replacement - Wood to FRP Replacement - Repair	- Wood to Wood Replacement - Wood to FRP Replacement - Repair
CASING	- Replacement - Patching	- Replacement - Patching



STRUCTURAL REPAIRS & REPLACEMENT

MTS specializes in complete structural replacement in wood or pultruded fiberglass (FRP). Shown here is a cell-by-cell online replacement where the adjoining cells are operating.



DRIFT ELIMINATOR & FILL REPLACEMENT

Depending on the water quality, the fill and drift eliminators may become clogged by scale, dirt or debris. Cooling towers often act as an air filtration system trapping materials in the fill and DEs.



MECHANICAL REPAIR & REPLACEMENT

MTS has strong relationships with every cooling tower component manufacturer allowing us to pass along OEM component upgrade and replacement pricing. Our mechanical repair team is the best in the industry resulting in minimal downtime.

MASTERTECH **REPAIR**

KEEPING YOU UP AND RUNNING.



MTS offers an array of repair services including but not limited to: standard maintenance, repairing mechanical equipment, replacing the complete internal components of the cooling tower, and replacing the structure and casing. When choosing a company to repair your cooling tower it is important to work with a company with **seasoned professionals who understand every facet of cooling towers**. MTS employees are well-versed in the art of bringing a compromised cooling tower back to life. Repairs are inevitable, but by working with experienced staff and crews at MTS you can **avoid future downtime and expenses**.

MTS **RECOVERY**

FIRST RESPONSE. REAL RELIEF.



EMERGENCY & DISASTER SERVICES

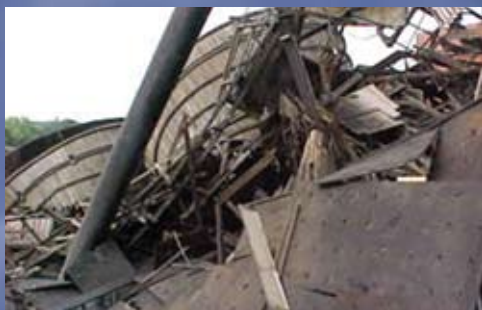
Disaster recovery is our forte. From hurricanes to tornados, from earthquakes to floods, MTS is the first responder of choice for critical plant infrastructure. We know that damage from severe weather is a matter of when, not if. We also know the magnified consequences to your business when your plant is shut down from severe storms. Fortunately, we've planned ahead. We've stocked strategic distribution centers with critical path components. We've employed an emergency disaster response team that can respond 24/7 along with dedicated field crews. When disaster strikes, rest assured that you'll have the full attention of our entire team to make sure your plant is up and running as quickly as possible. When disaster strikes, strike back with MTS.



CRITICAL PATH COMPONENTS IN STOCK

MTS has the industry's largest in-stock selection of cooling tower parts with a wide selection of gearboxes available in over 50 different models ready to ship year-round. We also stock a volume inventory of critical path components including:

- Fan Stacks
- Fans Assemblies
- Coupling Systems
- Gearboxes
- Tower Casing



24/7 ON-CALL EMERGENCY RESPONSE TEAM

MTS is about people. Our personnel in and out of the office have been trained in the processes necessary to repair cooling towers and help you recover from unforeseen events. You can count on us 24 hours a day, seven days a week during the times when you need us the most. Our sales advisors, project managers, supervisors and field support work tirelessly to bring your cooling tower back online safely all while providing premium client service.



NATIONWIDE OFFICES & DISTRIBUTION CENTERS

MTS has sales offices, warehouses, and distribution centers nationwide. Our staff is dedicated to your needs come rain or shine. We pride ourselves on delivering solutions at all times, and we've built a reputation for getting you back online safely and quickly.



ENGINEERED SOLUTIONS

Ingenuity is what made this country great. Its also what makes MasterTech Services great. In times of peril, and in times of calm, our engineers and our project teams are not afraid to roll up their sleeves and apply new ideas to solve your cooling tower problems. We work creatively to devise intelligent solutions to get your cooling tower back online in a timely manner.

MASTERTECH SERVICES, INC.
MTS™

COOLING TOWER SPECIALISTS



MASTERTECH SERVICES HAS YOU COVERED NATIONWIDE

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