



METALFORMS
A TransTech Company

FABRICATION SOLUTIONS for Petrochemical & Refining



Metalforms + TransTech Energy + Bendel Tank & Heat Exchanger + Maddox Industrial Group + ESI

Beaumont, TX + Houston, TX + McGregor, TX + Charlotte, NC + Indianapolis, IN + Sisters, OR + Denver, CO + Rocky Mount, NC + Cleveland, OH



Our Purpose

At Metalforms, we are dedicated to providing exceptional products and services tailored to meet our customers unique requirements. Our commitment to value creation and resource conservation, while enhancing environmental quality, boosting production, minimizing downtime, and supporting new product development, sets us apart. Through our expertise in designing, fabricating, testing, and maintaining heat exchangers and related process equipment, we ensure that every customer need is fulfilled. With our diverse range of services, Metalforms has emerged as the premier provider of heat transfer solutions along the Gulf Coast Region.

Metalforms Joins Forces with TransTech

We are thrilled to announce that Metalforms has recently joined the TransTech family of companies. TransTech is a renowned leader in delivering custom-engineered and fabricated solutions for various process and energy industries. Their expertise extends across sectors such as oil and gas, petrochemical, specialty chemical, renewables, biofuels, and other process industries. This strategic alliance broadens our geographical coverage and bolsters our portfolio with an extensive array of complementary products and services.

Through our association with TransTech and its affiliated businesses—TransTech Energy, TransTech Fabrication, Bendel Tank & Heat Exchanger, Maddox Industrial Group (MIG), and ESI—we are empowered to serve you better than ever before. This partnership allows us to tap into an expansive network of resources, expertise, and innovation. Together, we are fully committed to delivering unparalleled solutions that surpass your expectations.



Why Metalforms?

- **Unmatched Expertise:** With 5 decades of engineered equipment design and fabrication experience and a team of dedicated professionals, we possess the knowledge and skills to solve even the most complex heat transfer challenges.
- **Comprehensive Solutions:** Our expanded portfolio offers a comprehensive range of products and services, providing you with a one-stop shop for all your heat transfer and process equipment needs.
- **Geographical Reach:** With our expanded presence along the Gulf Coast Region, we are strategically positioned to serve a wider customer base efficiently and effectively.
- **Commitment to Excellence:** We are passionate about delivering exceptional solutions and ensuring your utmost satisfaction. Our commitment to excellence drives everything we do.
- **Commitment to Sustainability:** We are deeply committed to sustainable practices and environmental stewardship. We understand the importance of conserving resources and minimizing our impact on our environment. By choosing Metalforms, you align yourself with a partner that prioritizes sustainability in every aspect of our business.

*Comprehensive heat transfer and process
solutions across diverse industries*



Fabrication Specialists

Metalforms is a leading provider of custom engineered and fabricated solutions for gas and liquids processing, storage and handling across a broad range of industries including Energy, Petrochemical, Refining, Specialty Chemical, Biofuels, and others.

As part of the TransTech family of companies we deliver a wide range of fabrication solutions, field services, and 24/7 support services for critical industries. We specialize in process equipment solutions including Shell & Tube Heat Exchangers, ASME Pressure Vessels, repairs, and replacements.

**Where Engineering
Meets Fabrication**





Facilities Overview

Our 170,000 square foot facility houses three integral shops: Fabrication, Machine, and Bundle. With over 80 years of combined experience, our expert shop foremen ensure timely completion of any job. Supported by our team of Production Managers, Engineers, and Quality Control Inspectors, we offer value-added services for high-quality equipment construction and on-time delivery.

Fabrication

The Fabrication Shop excels in fabricating and assembling heat exchangers and pressure vessels. Our skilled staff of welders, pipe-fitters, and operators ensures that our products not only meet but exceed ASME code and quality requirements, along with customer specifications.

Machining

The Machine Shop produces quality heat exchanger and pressure vessel components using CNC and manual machinery. Our extensive drilling capabilities prevent downtime by addressing emergency needs. With lathes up to 84" in diameter and drills for plate thickness up to 12", we excel during turnarounds and unplanned outages.

Assembly

The Bundle Shop assembles new units and conducts repairs, including strip and re-tube. Our skilled team delivers high-quality finished products on time, regardless of size or complexity.



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Certifications

- ASME U, U2, U3, and S Certifications
- NBIC Certification
- TEMA Class R, C & B
- API 660
- Licensed fabricator of Phillips Petroleum Rod Baffle Bundles

Materials

- Carbon Steel
- Low Alloy Steel
- Austenitic Stainless Steel - 304, 310, 316L, 317L, 321, 347
- Super Austenitic Stainless Steel - ALLOY 20, 904L, AL6XN
- Ferritic Stainless Steel
- Duplex Stainless Steel - 2205, 2507
- Hastelloy - C22, C276, C2000
- Other Nickel Alloys - Nickel 200/201, Monel 400
- Titanium
- Copper Nickel
- 1 1/4 Chrome
- Brass
- Explosive Bond Cladded Materials

In-house NDE

- Radiography
- Liquid Penetrant, Magnetic Particle, and Brinell Hardness
- PMI (XRF Analyzer)
- Hydro Testing
- In-house PWHT Oven
 - 8'-0" X 8'-0" X 20'-0"
- In-house Local Stress Relieving
- Detailed Inspection of Existing Units



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Capabilities

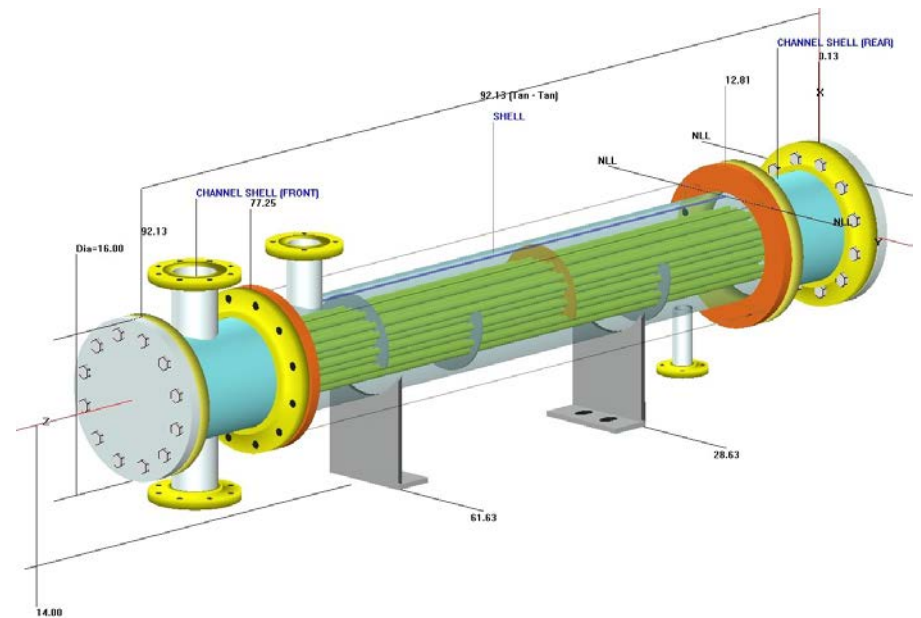
- GTAW/FCAW/SMAW/SAW
- Automatic Tube End Welding
 - 2 Mobile Climate Controlled Rooms
- Extensive List of ASME Section IX Qualified WPS Including Duplex with Ferrite Testing
- CNC Controlled Plasma Burner
- CNC Controlled Plate Rolls
- 4 Large Capacity CNC Drilling/Milling Machines
- 3 Horizontal Boring Mills
- 3 Vertical Turret Lathes
 - Maximum Swing of 84"
- Controlled Rolling Equipment
- On-site Blasting & Painting
- Strip & Retube
 - 72" Diameter Band Saw for Strip & Retube
 - 2 Strip Racks with Air Winches

Services

- Pre-turnaround Planning
 - Budget quotes for multiple options
 - Fabrication of replacement bundles prior to turnaround
- Turnaround Services
 - 24/7 Capabilities
 - Strip & Retube, Replacement Parts, Re-machining, Weld Buildup, & Painting
 - Parts Tracking and Updates
 - Value Added
 - In-house PWHT Oven & Local Stress Relief
 - On-site Radiography
 - On-site Blasting & Painting
 - Freight & Logistics Management

Engineering & Design Software

- COMPRESS: Mechanical design of Pressure Vessels, Reactors, and Shell & Tube Heat Exchangers
- ASPEN TECH
- HTRI: Thermal analysis of Shell & Tube Heat Exchangers
- PV Elite
- Nozzle Pro for FEA
- Inventor
- AutoCAD Plant 3D
- CUSTOM "in-house" programs: Developed by our experienced engineering staff for the efficient creation of Bill of Materials and Customer Quotations





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Heat Exchangers

Metalforms is a leading provider of custom engineered and fabricated shell and tube heat exchangers including:

- Fixed tubesheet
- Floating tubesheet
- U-tube

All our heat exchangers are designed to standard TEMA configurations and in accordance with ASME Code, Section VIII, Division 1; TEMA class R, C & B; and API-660. Our materials expertise includes: Stainless Steel, Carbon Steel, Nickel Alloy, Duplex and more.



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ASME Pressure Vessels

Metalforms delivers high-quality, custom-engineered Pressure Vessels, built to each client's specific application requirements. Every vessel is engineered and fabricated in strict accordance with ASME Code. Available in Stainless Steel, Carbon Steel, Nickel Alloy and Duplex, vessels can also include the following at your option:

- ASME U, U2, U3 Certifications
- Lethal Service
- Internal Coils
- Half-Pipe Jacket
- Dimple Jacket



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Repairs

Metalforms understands heat exchangers are a critical process component and when repairs are needed, they are often needed quickly. When time is critical and you need your heat transfer equipment repaired quickly and correctly, Metalforms has the expertise and capabilities to handle all types of repairs to get your unit back up and running. Common repairs we perform include

- Gasket surface repair
- Weld repairs
- Weld build-up and re-machining
- Replacement components
- Repairs to shell and channel components
- Coating and paint application



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Reactors

Through our sister company Bendel Tank & Heat Exchanger we deliver custom manufactured Reactors built to your exact specifications. All of our Reactors are engineered and fabricated in strict accordance with ASME code and are available in Stainless Steel Carbon Steel Nickel Alloy, and Duplex. Vessels can also include the following, at your option:

- ASME U, U2, U3 Certifications
- Low and High Pressure Designs
- Lethal Service
- Internal Coils
- Half-Pipe Jacket
- Dimple Jacket
- PMI - Positive Material Identification
- Pickling and Passivation
- PWHT & Stress Relieving



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 **TRANSTECH**  **BENDEL**
TANKS & HEAT EXCHANGERS
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Columns & Towers

Through our sister companies Bendel Tank & Heat Exchanger & TransTech we deliver custom manufactured trayed and packed columns & towers built to your exact specifications. All our columns & towers are fabricated in strict accordance with ASME code and are available in Stainless Steel Carbon Steel, Nickel Alloy, and Duplex, including:

- Adsorber Columns
- Amine Stills
- Condensate Stabilization
- Debutanizers
- Deethenizers
- Depropanizers
- Distillation Columns
- High Pressure Contactors
- Lethal Service Scrubbers
- Rectifying Columns
- Scrubber Columns
- Stabilizers
- Stripper Columns
- Vertical Absorbers



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API-650 & API-620 Storage Tanks

Our sister company Bendel Tank & Heat Exchanger manufactures the highest quality storage tanks, engineered and fabricated in accordance with ASME, API-650, and API-620 specifications.

Their unique manufacturing process allows them to seam weld plates up to 192" long with 100% X-ray quality, resulting in fewer circumferential welds and an overall superior product at the same or less cost than our competitors. Materials include:

- PWHT & Stress Relieving
- Internal Coils
- Half-Pipe Jacket
- Dimple Jacket
- Ladders & Platforms
- Insulation



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BENDEL
TANK & HEAT EXCHANGER
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Platform & Ladders

Our sister company Bendel Tank & Heat Exchanger offers outstanding quality custom-fabricated ladders, platforms and other systems for providing safe, convenient access to tanks, vessels and equipment as needed for day-to-day operations, maintenance and repair.

All our fabricated assemblies are purpose-built to your exact specifications, for indoor and outdoor applications, offering complete design flexibility and ensuring impeccable fit and compatibility with your facility and operations.



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Large Diameter, Heavy Wall Vessels

TransTech provides custom design and fabrication of large diameter, heavy wall, super capacity ASME code certified pressure vessels, serving clients in chemical, petrochemical, oil and gas, refining, and a wide variety of manufacturing industries. With sizes of up to 20 feet plus in diameter and weighing as much as 650,000 pounds and more we can also include the following, at your option:

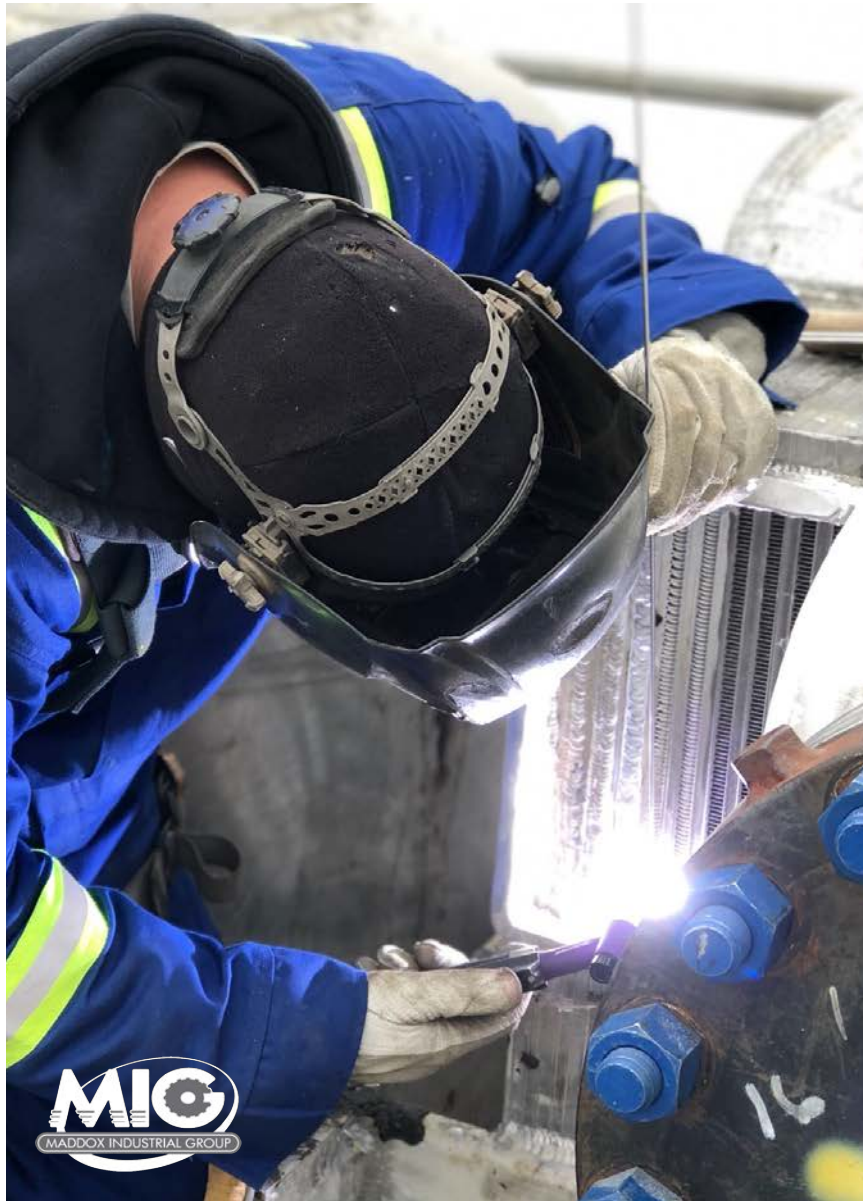
- ASME "U" Stamp, Division 1, 2, and 3, and NBIC "R" Certificate
- Atmospheric, Low and high pressure designs
- Above ground and underground options



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FIELD SERVICE SOLUTIONS

from Maddox Industrial Group



Field Services Solutions

- In-field Maintenance & Upgrades
- In-field Consultative Trouble-Shooting
- Reliability Support for Air Separation
- Coldbox Troubleshooting, Leak Detection & Repair
- BAHX Troubleshooting & Repair
- Confined Space Entry & Rescue
- SPRAT - Rope Access
- In-stock Inventory of 5083 Pipe & Fittings
- UHP & Sanitary Piping Cleaning/Fabrication/Installation
- R-Stamp Repair & Modification - Shop & Field
- Onsite Pneumatic & Hydrostatic Pressure Testing
- Design & Engineering
- ASME Fabrication
- On-site NDE (RT, PAUT, & PT)
- Tank Set & Equipment Installation
- Contract In-house Machining, Milling and Tubesheet Drilling Capabilities



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Process Piping

MIG is a full service mechanical contractor supporting a wide range of industrial process piping applications. Process piping is any piping that carries a product in a processing system. Each product and process is uniquely different and creates challenges in building, installation, maintenance and upgrade of those systems.

Process Piping Systems:

- Steam & Condensate
- Cooling & Service Water
- Compressed Air & Gas
- Instrument & Control
- Hydraulic & Lubrication
- Pneumatic Conveyance
- Petroleum & Pipeline
- High Temperature & Pressure
- Cryogenic
- Food Grade
- Sanitary Tubing
- High Purity Tubing

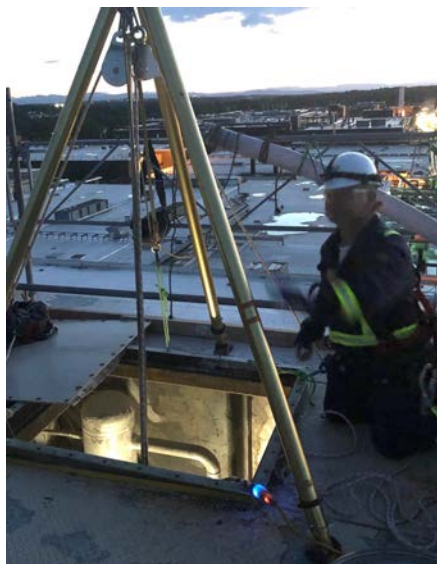
MIG Offers:

- Precision Laser Alignment
- Certified Welding
- Certified Riggers
- Emergency Maintenance Repairs & Alterations
- All forms of piping materials: stainless steel, carbon steel
- All forms of piping connections: bolt up, welded, grooved, threaded, bent tubing, etc.



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Confined Space Rescue

Our team has extensive experience working inside boilers, tanks, columns, and process vessels and the need for a standby rescue team developed from this type of work. MIG Confined Space Rescue Team (CSRT) allows your company to put an emergency response plan in place to ensure the safety and health of your staff during critical emergency operations. Our industrial rescue services include:

- Emergency rescue teams
- Trained rescue personnel
- Confined Space training
- Standby rescue services
- Low angle rescue
- Confined Space entry
- Safety and rescue equipment rental

MIG keeps your employees safe by offering industrial rescue services that emphasize crisis avoidance and emergency training that is tailored to your company's specific needs.



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Rope Access

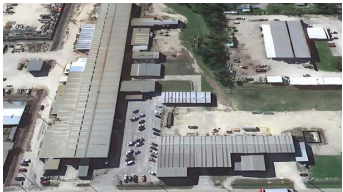
MIG delivers integrated rope access capabilities as needed across our complete services portfolio, enabling faster, safer, and more economical project and services delivery. All our rope access teams follow SPRAT (Society of Rope Access Technicians) standards and work procedures and are monitored for compliance to ensure optimal safety and performance. With four decades of experience, our seasoned teams have extensive experience utilizing rope access methods for all of the following tasks:

- Inspection & Testing
- Construction
- Maintenance & Repair
- Vessel & Equipment Installation
- Cleaning & Painting
- Facilities Management & Building Services
- Emergency Maintenance & Repair
- Confined Space Rescue
- And More



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Beaumont, TX
170,000 square foot
fabrication facility
Metalforms



McGregor, TX
170,000 square foot
fabrication facility
TransTech Fabrication



Charlotte, NC
65,000 square foot
fabrication facility
Bendel Tank & Heat
Exchanger



Indianapolis, IN
46,000 square foot
fabrication facility
Maddox Industrial Group



Rocky Mount, NC
25,000 square foot
fabrication facility
TransTech Energy



Sisters, OR
20,000 square foot
fabrication facility
ESI



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A FEW OF OUR CUSTOMERS

Linde

DUKE ENERGY



KINDER MORGAN
INC.

GE Power

SIEMENS energy

Enterprise Products

EVONIK
POWER TO CREATE

Pfizer

Dominion Energy

HEXION

Cargill

Relativity

ENERGY TRANSFER

AIR PRODUCTS

INDORAMA

OXY

EASTMAN

VENTURE GLOBAL LNG



INEOS

CLARIANT

Nouryon

TARGA

XTO ENERGY
An ExxonMobil Subsidiary

MATHESON
The Gas Professionals

Kiewit

HUNTSMAN

ARI

covestro

MPLX ENERGY LOGISTICS

Western Midstream Partners, LP

Chevron Phillips Chemical Company

Airgas
an Air Liquide company

Nestlé

ECOLAB

MESSER



BRIGHTMARK

Williams

CSX

POET
HUMAN + NATURE™

lyondellbasell



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