



**HEAT TRANSFER SYSTEMS, INC.**  
DESIGNER & MANUFACTURER  
**FACILITIES SURVEY**

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St. Louis, MO 63111-3655  
(314) 631-3311 tel  
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[www.heattransfersys.com](http://www.heattransfersys.com)

**GENERAL INFORMATION**

**Major Product**

Heat Transfer Equipment

- Shell & Tube Heat Exchangers
- Waste Heat Recovery Units
- Waste Heat Boilers
- Heat Recovery Systems
- Feedwater Heaters

Fabricated Plate Products

- Towers
- Vessels
- Reactors

Repair and Modification Services

- Heat Exchanger and Pressure Vessels

**Max. Dimension  
& Weight**

14' Diameter, 150' Length, 300,000 pounds (150 Ton)

**Type of  
Ownership**

Missouri "C" Corporation

**ASME  
Certification**

- Section I "S" Stamp (#20647)
- Section VIII, Division 1 "U" Stamp (#20649)

**National Board  
of Boiler &  
Pressure Vessel**

- "R" Stamp (#R-2988)
- "NB" Stamp

**Engineering**

Complete thermal, mechanical, and drafting services in house.

## MANUFACTURING FACILITIES

- Plant**
- 75,000 square feet under roof
  - 2.5 acres yard storage
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- Lifting Data**
- All bays serviced by overhead bridge cranes. 300+ ton total capacity. Custom spreader bars to allow the use of multiple bridge cranes.
  - Heavy duty rail system for movement between bays.
  - Forklifts up to 36,000 lbs. capacity
  - 240 ton hydraulic lift system
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- Welding**
- ASME Code Qualified (Section IX)
  - 500+ qualified welding procedures for the following materials and applications:
    - carbon steel
    - low alloy carbon steel
    - stainless steel (300 series, 400 series, duplex)
    - high nickel alloys
    - CuNi alloys
    - aluminum
    - corrosion resistant overlay
    - PWHT
    - impact testing
    - automatic & manual tube-to-tubesheet welding
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- Welding Processes**
- SMAW (stick)
  - GTAW (tig)
  - SAW (automatic)
  - GMAW (mig)
  - FCAW (flux core)
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- Machine Shop**
- 1 – CNC horizontal machining center - 96" x 48" envelope, high pressure coolant
  - 5 – CNC vertical machining centers - up to 144" x 540" envelope, high pressure coolant
  - 2 – CNC T lathes with live spindles, 80" swing
  - 1 – 8' radial arm drill
  - 2 – 6' radial arm drills
  - 1 – 4' radial arm drill

**Machine Shop**  
(continued)

- 1 – 54" diameter Vertical Boring Mills
  - 2 – 120" diameter Vertical Boring Mills
  - 2 – Machine Lathes - 28" diameter x 120" long
  - 2 – Bullard CNC Vertical Boring Mills, max 92" swing, 8' under rail
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**Welding & Assembly Shop**

- 2 – automatic tube-to-tubesheet welders
  - 20 – welding machines (current range 250-1200 AMPS)
  - 6 – automatic submerged arc welders (SAW), four on track mounted manipulators
  - 6 – inert gas welder (GTAW)
  - 10 – power welding positioners, up to 30,000 lbs capacity
  - 10 – power tank turning rolls, up to 90 ton capacity
  - 2 – heavy duty 400 AMP plasma cutting machines
  - 2 – hydraulic torque wrench systems
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**Bundle Shop**

- 5 – air torque tube expanders
  - 1 – hydraulic tube expander
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**Additional Equipment List**

- 3 – plate shears
    - 0.50" thk x 10' long
    - 0.75" thk x 8' long
  - 2 – circle burners
  - 4 – straight line burners
  - 1 – abrasive cut-off saw
  - 1 – 18" jaw band saw
  - 1 – 48" band saw
  - 2 – electric eye template cutters equipped with oxyacetylene and plasma torches
  - 1 – iron worker 90 ton capacity
  - 2 – combination cutter & punch
  - 1 – CNC cutting machine - 10' x 20' table with Burny3 control
  - 3 – Pullmax x91 plate bevellers
  - 1 – Komatsu Twister TFP3051 CNC high definition plasma table, 5' x 10' table, 150 amp
  - 1 – Vernon 5-axis CNC pipe cutting & contouring machine
  - 1 – Alltra CNC high definition plasma table, 12' x 42' table, 260 amp
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**Forming**

- 2 – hydraulic press brakes (max 1250 ton, 12' capacity)
  - 3 – plate rolls
    - 2.75" thk x 10' (four roll with cone capability)
    - 0.75" thk x 10' (four roll with cone capability)
    - 0.25" thk x 8'
    - Ability to subcontract up to 8" thk
  - 2 – flange machines
    - 1/4" thk capacity
    - 3/4" thk capacity
  - 1 – pipe coiling machine
  - 1 – Roundo R5 angle roller (4.5" x 4.5" x 0.5")
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**Blasting**

Sandblast booth 40' x 14' x 14' with overhead monorail and ground rail track

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**Painting**

Pressure spray booth 40' x 14' x 14' with overhead monorail and ground rail track

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**Testing & Inspection**

Quality Control Manager reports directly to the President

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**Inspection Agency**

OneCIS Insurance Company (Bureau Veritas)

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**Hydro-Test**

15,000 PSI Capacity

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**Non-Destructive Testing**

- Radiography
  - Dye Penetrant
  - Magnetic Particle
  - Ultrasound
  - Hardness
  - Halide Leak
  - PMI (Niton XL3t)
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**Shipping Facilities**

- Truck: Contract Carriers
  - Railroad: St. Louis Terminal
  - Air Freight: Various, facility 20 minutes from St. Louis International Airport
  - Water: Port of St. Louis (Mississippi River)
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**Bank Reference** PNC Bank – St. Louis, MO

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**Partial  
Customer List**

- Abonos Colombianos S.A.
  - Anadarko Petroleum
  - Bechtel Corporation
  - Burns & McDonnell
  - Cameron
  - Cargill
  - Chevron
  - ConocoPhillips
  - Denbury Resources
  - CVR Energy
  - Dyno Nobel
  - EDG
  - Evonik Industries
  - ExxonMobil
  - Fluor Corporation
  - Foster Wheeler
  - Georgia Gulf
  - Gulf Coast Engineered Solutions
  - Jacobs Engineering
  - Koch Industries
  - Marathon Oil
  - Monsanto
  - Murphy Oil
  - Nalco
  - Petrex
  - Petrofac
  - Premier Industries
  - Protherm Corporation
  - Sagebrush Pipeline
  - SBM Offshore
  - Shell Offshore
  - Thermal & Process Sales
  - Total Petrochemicals
  - Vogelbusch
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