

INNOVATIVE
SOLUTIONS
Custom



Custom
METALCRAFT® INC.

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SPECIALTY EQUIPMENT

INNOVATIVE
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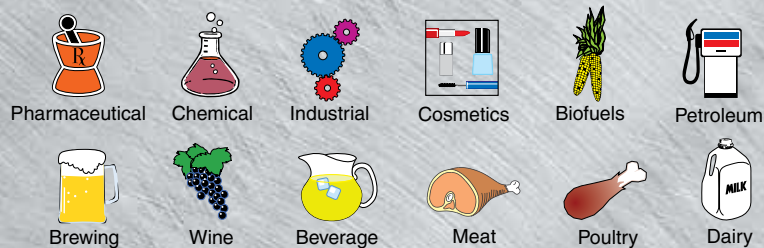


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INDUSTRIES SERVED



For more than 30 years Custom Metalcraft, Inc., has specialized in the design and manufacture of stainless steel tanks and processing equipment. We have developed a reputation for providing the highest quality equipment and customer service for our clients.

Custom Metalcraft, Inc., has the facilities, personnel and ability to design and manufacture your stainless steel or alloy equipment. It is managed by knowledgeable and dedicated people, and is staffed with capable and experienced craftsmen. In addition, we have the capability to integrate a fully automated turn-key system.

We are committed to building the highest quality equipment within compliance of some of the the most stringent codes and specifications. Our goal is to fabricate equipment designed to meet our customers' needs.

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CAPABILITIES

INNOVATIVE CUSTOM SOLUTIONS

GRINDING & POLISHING

PLATE & PIPE FORMING

ASME CODE

WELDING

IN-HOUSE ENGINEERING

MATERIALS

- Stainless Steel (all 300 series)
- Stainless Steel (all 400 series)
- Aluminum
- Specialty Alloys

DESIGN CAPABILITIES

- ASME
- Section VIII-Division 1
- "U" and "R" Stamp
- API • UL • UN
- FDA • USDA
- National Board Inspection Code
- Seismic
- 3A

FABRICATION CAPABILITIES

- Flanged & Dished Head Forming
- Plate Rolling - up to 1" thick
- Plasma Cutting - up to 3" thick
- Hydraulic Press Brake - up to 1" thick
- Hydraulic Shear - up to 1" to 12' long
- Vertical Milling
- CNC Milling
- GTAW (tig) Welding
- GMAW (mig) Welding
- Angle, Pipe, Flat, Bar, Shape Bending, Rolling
- Drill Press - Hole Punch
- Crane Capacity up to 60,000 lbs.

MATERIAL FINISHES

- Finishes Ranging From 2B up to #8 Mirror
- Electropolish Finish
- Glass Bead Blasted Finish



SPECIALTY PROCESS TANKS

Optional Features Available For Specialty Process Tanks



STORAGE TANKS

We offer vertical and horizontal tanks for all industries for atmospheric or high pressure applications.



1 gallon to 60,000 gallon tanks available.



BALANCE TANK

Designed to eliminate the backflow of product.



SPECIALTY TANKS

Available in traditional cylindrical or modular square design. Ideal for bulk storage of liquid product.



PROCESS COLUMNS & SCRUBBERS

Process Columns are custom manufactured to industry specifications for Ethanol, Alcohol Distillation, Chemical, Petrochemical, Petroleum and Pollution Control.



AGITATION

Agitation can be configured for many product types including liquid/dry material combinations. Agitators are designed for variable speed, with a combination of baffles and mixing styles to suit the process and product.



PHARMACEUTICAL/SANITARY TANKS

These tanks are generally custom designed for the USDA & FDA regulated industries. Tanks are highly polished vessels with special emphasis placed on sanitary design and construction.



KETTLES & PROCESSORS

Hemispheric bottom and vessel design provides superior cleanability and will accommodate a variety of designs.

SPECIALTY MEAT / POULTRY VATS / DOUGH TROUGHS



Designed and fabricated to meet the strict requirements of the USDA for the meat industry. Tanks are designed specifically for use in chilling, curing, collection, transfer and storage. State-of-the-art technology in manufacturing processes gives you a high quality, durable container for years of service.



Standard Reinforced Edges



Optional Stacking Pads

* VATS CAN BE CUSTOM DESIGNED & FABRICATED TO YOUR EXACT SPECIFICATIONS.



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LIFTS & DUMPS

* All products available in customer specified material



PIVOT STYLE LIFT & DUMP

This design is for use when ceiling heights are limited or elevated dump heights are required.



CUSTOM DESIGNED PIVOT DUMPER

Specialty dumpers can be manufactured to accommodate various sized containers, including units to handle multiple containers simultaneously.

- Stainless steel and sanitary designs
- Capacities up to 6000 lbs.
- Rugged construction, easy to use
- Standard control package includes emergency stop, up/down switch



DRUM DUMPER

Stationary and portable barrel dumper. Dump heights to meet specific production needs.



V-MAG VAT INVERTER

Single pivot dumper is made of 304 stainless steel construction. Designed to accommodate a variety of containers. Special counterbalance valve to prevent load from falling in the event of a sudden pressure loss.



TUB DUMPER

This floor-loading single pivot dumper offers 135 degree rotation of stainless steel tubs. Special open platform with drip shield prevents contaminants from entering product loading zone. Tapered chute assists with controlled discharge.



CUSTOM SEAL, PIVOT & DUMP

Variable lift and/or dump height configurations to handle any size container

OPTIONAL FEATURES INCLUDE

- Safety cages
- Discharge cones
- USDA, FDA, or 3A specifications



BUGGY DUMPER

Portable or fixed mount with numerous receiver configurations. Available in stainless steel and sanitary designs.



DEPALLETIZER

304 stainless steel dumper is designed to lift, rotate and dump containers from Gaylord boxes. Dumper has stationary front loading design with special drop bottom and pallet retraction system to keep pallet out of food contact areas.



SPECIALTY EQUIPMENT



BARREL CRUSHER

Designed with variable pressure options to apply pressure to the barrel to break the interior product into smaller size pieces for discharge.



PLATFORMS & CATWALKS

Platforms are designed and fabricated to meet OSHA standards.



MULTI-DIRECTIONAL PUMP OVER CART

Atmospheric cart is designed with stamped heating/cooling transfer surface. One jacketed outlet assembly transfers from tank to pump and from pump to T with dual butterfly valves. Options available for discharge or option to pump product back into tank. Provided with pump and NEMA 12 VFD controls.



RIBBON BLENDERS

Single and double bowl blenders are available in capacities from 1/2 cu. ft. to 200 cu. ft. Provides complete blending and mixing with thorough discharge. Specialty designs available.



VACUUM CAN TESTER

This unit offers a sight glass and quick opening manway for easy access while testing within an enclosed environment.



COATING DRUM

Continuous coating and mixing of ingredients for products. Available in variable mixing rates.



SANITARY PRODUCT DELUMPER

Unit reduces clump size of vegetables or meats using delumping fingers. Assembly slides on frame guides and pins in various positions, providing adjustability for different products. Easily removed for cleaning.



MULTI-COMPARTMENT TANK

This tank features four separate individual compartments, each with specific heat transfer surface. Each compartment is equipped with a dedicated electric mixer with variable speed adjustment.



SCISSOR LIFT

All stainless steel construction, designed to accept and lift pallets or containers of product. They are hydraulically operated and allow the worker to adjust the height of the receiving platform to the appropriate working level. They are used most commonly with work platforms and can be made to accommodate your height requirements and accept your pallet or container dimensions.



MEAT & BAKERY RACKS

Racks are designed from 300 series stainless steel construction and have an open frame design to allow for quantity of trays as customer requires. Caster design allows for easy movement around production facility.



DRUM MANIPULATOR

Specially designed to lift, rotate and manipulate drums within a confined space.



GLOVE BOX

This specialty piece is a single wall tank designed for atmospheric operation with a bolt-on window panel. Tank allows for operators to handle toxic product with no skin contact. Made from 316L stainless steel and polished to a minimum of 20 Ra.

HEAT TRANSFER

SANITARY HEAT EXCHANGERS

The patented* CM-3 Triple Tube Heat Exchanger is simple to install, operate and maintain. Can be cleaned and sanitized with standard CIP systems and easily disassembled without tools. To heat or cool a flowable product, the CM-3 Tube is engineered in-house to your product specifications.



CYLINDRICAL ASME YEAST TANK

Cone bottom allows for yeast settling. Optional removable CIP wand assembly, ASME dimpled jacket labeled for 100 PSI at 200°F. Fork channels provide two-way fork access.



Custom Metalcraft heat transfer surface has superior performance at low and high pressure as well as extreme temperatures.

SHELL & TUBE, COIL & IMMERSION HEATERS

All of our heat exchangers can be designed to meet ASME code requirements and can be fabricated from a variety of materials.



HALF PIPE HEAT TRANSFER

Half Pipe heat transfer is recommended for water, oil or glycol type fluids at up to 100 GPM and pressures up to 200 psig @ -320° thru +500° F. Custom Metalcraft half pipe jackets can be formed from 1-1/2" to 4" diameter pipe.



TANK WITH COIL

Sanitary internal heating / cooling coils are custom formed to meet customer required sizes.



INCLINED SCREW CONVEYORS

This conveyor features an 8" inclined screw with an infeed chute within a U trough. Casters allow flexibility in movement.



INCLINE BELT CONVEYORS

Conveyors are designed to transport product and discharge into custom processing equipment or tanks. Styles available with a variety of options, such as metal detectors, as shown above.



TRANSFER CONVEYORS

Allows customers to combine or stage product to multiple endpoints.



ADJUSTABLE HEIGHT BELT CONVEYORS

Incline belt conveyors are designed to transfer product from existing equipment to a secondary location. Conveyor has adjustable feet and a belt scraper located below the discharge end of the drive pulley.



HORIZONTAL BELT CONVEYORS

Options include "S" curves, declines, retractable belts and articulating ends. Lateral movement designs are also available for filling and product dispersal.

TANK HEAD STYLES



DISHED ONLY

SHALLOW FLANGED AND DISHED

FLANGED ONLY

STANDARD FLANGED AND DISHED

FLANGED AND REVERSE DISHED

ASME FLANGED AND DISHED

CONICAL AND TORICONICAL

80% DISH RADIUS—
10% KNUCKLE RADIUS

HEMISPHERICAL

ELLIPTICAL

TANK HEADS

Custom Metalcraft's stainless steel and alloy tank heads are fabricated by employing modern head forming equipment and techniques. We can form heads up to 3/4" thick up to 15'-1/2" in diameter.



MANWAY CLOSURES & SIGHT GLASSES

Custom Metalcraft manufactures a broad line of manway closures and sight glasses for its own use in the manufacture of tanks, pressure vessels, reactors, processors and other products, which are also available for purchase.



TRANSTORE PRODUCTS



Standard outlet assembly



TRANSTORE® MIXING SYSTEMS
Designed for installation on most IBC types and sizes.

TRANSTORE® LIQUID IBCs

The most advanced industrial tanks since their introduction into the market.

TRANSTORE® DOT-CODE CERTIFIED PRESSURE VESSELS

These custom designed containers are engineered, fabricated and tested to DOT T-code requirements. Tanks are constructed per ASME code standard Section VIII, Division 1 and labeled.



TRANSTORE® IBC CONTAINMENT BASINS
An economical solution to secondary containment issues. Compatible with any IBC type or design.



TRANSTORE® HEATING/COOLING IBCs

These tanks are perfect for temperature maintenance, offering the ability to heat or cool according to your requirements.



TRANSTORE® UN-CODE TANK

- Designed for pressure & vacuum
- Horizontal configuration
- Portable design available
- Custom valves & connections



TRANSTORE® IBC HEATING/COOLING UNIT

Designed to warm or cool your product to desired temperatures using variable controls.

ACCESSORIES & REPLACEMENT PARTS



Insulating Blankets



Belly Band Heater



Spray Washer



Tank Stands



Anti-Teeter Bars



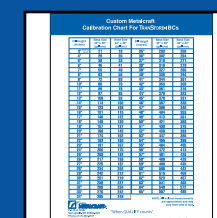
Fork Tubes



Heating/Cooling Transfer Jackets



Air Driven Mixer with Lid Mount



Calibration Chart



Internal Heat Coils



Repair Kits



TRANSTACK™ Feed System

