



*Custom*  
**METALCRAFT**® INC.

# TRANSTORE® PRODUCT GUIDE

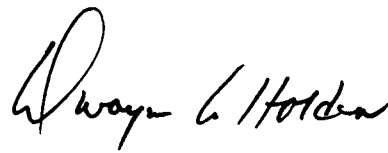


**“CONTAINER AND MATERIAL HANDLING SOLUTIONS FOR EVERY INDUSTRY”**

[www.custom-metalcraft.com](http://www.custom-metalcraft.com)



It is Custom Metalcraft's desire to establish working relationships with each customer. We are dedicated to continually improving our manufacturing efficiency, overall quality and capabilities. These efforts allow all customers to get the most from their intermediate bulk container supplier. We firmly believe that you will find Custom Metalcraft and TranStore intermediate bulk containers (IBCs) to be the best long term value available.



Dwayne A. Holden  
 President  
 Custom Metalcraft, Inc.

## Mission Statement

Custom Metalcraft is dedicated to providing equipment and services that are the best value for the money invested. This is possible by using the latest design, manufacturing and testing techniques in the industry. We strive to be the company you think of when your needs call for the type of equipment and services we provide. Custom Metalcraft is committed to improving our customers' business, our community and our environment.

## Contents

TranStore History.....	1
TranStore Liquid IBCs.....	2
TranStore Liquid IBCs.....	3
TranStore IBCs for Viscous Products .....	4
TranStore Poly IBCs .....	5
TranStore IBCs for Specialty Applications .....	6
IBC Mixer Systems .....	7
TranStore IBC Accessories & Replacement Parts.....	8
TranStore IBC Accessories & Replacement Parts.....	9
Specialty Products Division .....	10
Specialty Products Division .....	11
Specialty Products Division .....	12
Specialty Products Division .....	13

All Custom Metalcraft TranStore IBCs are covered by one or more of the following patents:  
 5,718,351 - 5,531,873 - 5,474,205 - 5,505,070 - 5,566,848 - 5,701,776 - 2,134,727 - 5,509,564 - 5,287,717.

TranStore, TransiTainer and TransLube are registered trademarks of Custom Metalcraft, Inc.



# TRANSTORE® Stainless Steel IBCs



**C**ustom Metalcraft, Inc. was founded in 1977 by Dwayne Holden and Jerry Cowan. With headquarters in Springfield, Missouri, Custom Metalcraft is centrally located to allow for easy access to all regions of the United States. Custom Metalcraft has approximately 200 full time employees with a manufacturing space of over 120,000 square feet. We manufacture products such as intermediate bulk containers (IBCs), pressure vessels, process tanks, column lifts, dumpers, blenders, conveyors and other custom engineered equipment.

Since the first TranStore IBC rolled off the assembly line in 1982, our family of IBCs has continued to grow and expand. The TranStore product line includes designs suitable for a multitude of applications and industries. Custom Metalcraft can manufacture these containers from stainless steel, carbon steel, aluminum or exotic metals. Bring us your specific product requirements, and we can work together to design a solution that best fits your specific needs.



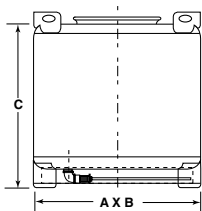
# TRANSTORE® Liquid IBCs



Standard 2" stainless steel outlet assembly

## STANDARD TANK SIZES

CAPACITY (GALLONS)	BASE SIZES		OVERALL TANK HEIGHT C
	A	B	
180	36"	36"	40-1/2"
215	42"	42"	35"
250	42"	48"	35"
260	42"	42"	41"
300	42"	48"	41"
305	42"	42"	47"
350	42"	48"	47"
395	42"	42"	59"
450	42"	48"	59"
485	42"	42"	79"
525	42"	48"	68-1/2"
550	42"	48"	71"



## TRANSTORE® IBCS

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

### Features:

- ▶ Patented one-piece sloped bottom assures uniform and complete drainage
- ▶ 1/4" thick combination lift lugs for offshore and domestic applications
- ▶ TranStore tanks meet and exceed UN regulations and are authorized for shipment of combustible and flammable liquids per title 49 CFR
- ▶ Stackable to 3 high, when warehousing only
- ▶ Limitless service life with minimal maintenance
- ▶ Patented TranSeal pressure relieving bung plug

### Options:

- Material and weld finishes to 320 grit
- Custom sizes and base dimensions
- Stainless steel, carbon steel, or aluminum construction
- Center discharge
- Own, rent or lease-purchase options
- For more options and accessories see pages 8-9



# TRANSTORE® Liquid IBCs



## TRANSITAINER® CYLINDRICAL IBCS

The strongest cylindrical portable container available for liquid shipping and storage. Each unit is automatically welded, producing stronger, full penetration welds with smooth, consistent seams. The tanks discharge through a standard 2" bottom outlet with guard.

### Features:

- ▶ TransiTainer tanks meet and exceed UN regulations and are authorized for shipment of combustible and flammable liquids per title 49 CFR
- ▶ Extended fork tubes provide stability and allow tanks to stack
- ▶ 22-1/2" diameter formed drum closure with 2" fusible vent
- ▶ Valve guard
- ▶ 4-way fork truck access
- ▶ 2" outlet valve
- ▶ Patented TranSeal pressure relieving bung plug
- ▶ Warehouse stackable to 3 high with stacking ring

### Options:

- Stainless steel or carbon steel construction
- 1" sloped bottom
- Center discharge
- Stacking ring

TRANSITAINER CYLINDRICAL IBCs			
CAPACITY (GALLONS)	DIMENSIONS		
	DIAMETER	SHELL HEIGHT	OVERALL HEIGHT
250	45-1/2"	36"	46-1/2"
330	45-1/2"	48"	58-1/2"
390	45-1/2"	56"	66-1/2"
450	45-1/2"	64"	74-1/2"
500	45-1/2"	72"	82-1/2"

## TRANSTORE® IBC CONTAINMENT BASIN

An economical solution to secondary containment issues that is compatible with any IBC type or design. Custom designs are available to fit your space and tank requirements.

### Features:

- ▶ Stainless steel or carbon steel construction
- ▶ Includes a 1" outlet with plug for cleanout
- ▶ Top rim is reinforced with a 2" inward flange

### Options:

- 12" x 12" pump shelf
- Tank stands for IBC placement
- Grating placed on top of basin for stacking

TRANSTORE CONTAINMENT BASIN			
CAPACITY (GALLONS)	DIMENSIONS		
	LENGTH	WIDTH	OVERALL HEIGHT
200	60"	60"	13"
275	60"	60"	18"
350	60"	60"	23"
400	60"	60"	26"
500	60"	60"	32"
620	60"	60"	40"



# TRANSTORE® IBCs For Viscous Products



## TRANSTORE® GREASE TANK

Designed for viscous materials such as grease, gear oils, heavy lube oils and related products. The grease tank is extremely durable for years of dependable service.

### Features:

- ▶ 10 gauge carbon steel construction
- ▶ 45° hopper bottom design
- ▶ 4-way fork truck access
- ▶ Side pocket sump for pump mount (475 gallon only)
- ▶ Standard 3" bronze ball valve
- ▶ 3" inlet with cap in tank top
- ▶ Patented TranSeal pressure relieving bung plug

### TRANSTORE GREASE TANK

CAPACITY (GALLONS)	DIMENSIONS	
	BASE	OVERALL HEIGHT
165	42" x 42"	46-1/2"
275	44" x 52"	57"
475	48" x 48"	74"

## TRANSLUBE® TANK

Ideally suited for viscous products that need an "extra push" for discharge. This container has an internal piston follower plate to facilitate product discharge.

### Features:

- ▶ 4-way fork truck access
- ▶ 2" and 3" threaded connections in tank top
- ▶ Easy to read level indicator
- ▶ 1/4" air nipple, air assist
- ▶ Stainless steel or carbon steel construction

### Options:

- 3" bronze ball valve
- 3" "dry break" valve and dust cap
- Custom colors

### TRANSLUBE CYLINDRICAL IBCs

CAPACITY (GALLONS)	DIMENSIONS	
	DIAMETER	OVERALL HEIGHT
228	39"	64-1/2"
260	39"	70-1/2"
290	39"	76-1/2"
379	45-1/2"	78-1/2"



# TRANSTORE® “Voyager” Poly IBCs

## TRANSTORE® “VOYAGER”

The TranStore VOYAGER is virtually maintenance free. The tapered bottom design is patented and provides full discharge of the product. The base is the most durable in the industry and completely protects the valve and sump area.

The TranStore VOYAGER-DW (dual wall) is the toughest all-poly IBC available on the market today. This container has the quality, durability and consistency that outperforms conventional poly shipping and storage systems.

### Features:

- ▶ 6” heavy duty fill cap with 2” bung and plug
- ▶ 2” outlet with 2” polypropylene ball valve and male quick-connect
- ▶ 4-way for truck access and 2-way pallet jack access, 2-way anti-tip safety bars
- ▶ Interchangeable with other industry models
- ▶ Sloped bottom for complete discharge
- ▶ Recessed, protected valve location
- ▶ Molded-in, easy to read tank level indicator
- ▶ Rated for materials up to 1.9 specific gravity
- ▶ Stackable up to 2 high when full
- ▶ Manufactured and labeled to UN 31H and UN 31HH requirements
- ▶ Premium grade LLDPE, food grade, chemical resistant

### Options:

- Pressure / Vacuum vent
- 2” bung opening
- 12” top fill opening with cap
- Molded-in graphics
- Custom colors
- Fill / Discharge pipe assembly
- Gaskets: EPDM, Viton, Teflon, Buna
- Various ball valves: food grade, full port, stainless steel
- 20” non UN approved top opening
- Mold on graphic (subject to quantity)



SPECIFICATIONS			
	RATED CAP	TARE WEIGHT	BASE AND BOTTLE
VOYAGER	220	224 lb.	45" x 45" x 51-3/8"
	275	238 lb.	45" x 45" x 59-3/8"
	330	251 lb.	45" x 45" x 66-3/4"
VOYAGER DW	300	425 lb.	48" x 45" x 60-3/4"
	330	465 lb.	48" x 45" x 71.2"



# TRANSTORE® IBCs For Specialty Applications



Sanitary outlet assembly

## TRANSTORE® HEATING/COOLING IBCS

These tanks meet the quality requirements of the food and beverage industries and are perfect for use in chilling, clarification and curing processes. Available in a wide variety of sizes, with many optional features, these tanks are ideal for small batching, storage and transferring applications.

### Features:

- ▶ Heat transfer surface
- ▶ Lifting lugs for lifting and stacking
- ▶ Stackable to 3 high
- ▶ 2" sanitary ferrule in tank top
- ▶ 2" sanitary ferrule outlet with or without valve
- ▶ 2B material finish

### Options:

- Material and weld finishes to 320 grit
- Design can be tailored to fit special needs
- UN testing and labeling available
- Full line of accessories

## TRANSTORE® OPEN TOP VATS

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. They can easily be handled with a fork lift or floor jack. State of the art technology in manufacturing processes gives you a high quality, durable container for years of service.

### Standard Features:

- ▶ Drawn one-piece bottom head
- ▶ Reinforced rolled top rim with seal welded corners
- ▶ Continuous welds
- ▶ USDA accepted sanitary finish
- ▶ No corner welds in bottom or shell
- ▶ Minimal welding around outlets
- ▶ Stainless steel, carbon steel or aluminum construction
- ▶ All inside corners have 2" radius



VATS CAN BE CUSTOM DESIGNED & FABRICATED TO YOUR EXACT SPECIFICATIONS



# Mixer Systems for All Types Of Bulk Containers



## TRANSTORE® MIXER SYSTEMS

### Features:

- ▶ Designed for installation on most IBC types and sizes
- ▶ Compatible with a wide range of materials and applications
- ▶ Air, electric and hydraulic driven models
- ▶ Quick and complete blending
- ▶ 304 and 316 stainless steel construction
- ▶ UN accepted designs with removable drive and lower unit installed
- ▶ Engineered to meet your exact mixing requirements

### Options:

- Direct drive or gear reduced
- Various covers available
- Food grade designs
- Explosion proof motors
- Plate mount
- 30° quick connect for UN service
- Drive motors available:
  - Air drive: 1.8 hp - 3.0 hp - 5.0 hp
  - Electric drive: 1.5 hp - 2.0 hp - 3.0 hp / 110 volt - 220 volt - 460 volt
- Variable speed control available
- High pitch impeller
  - 6" - 8" diameter
- Turbine style blades
  - 12" - 14" - 16" diameter



Air driven mixer assembly  
with plate mount



Air driven mixer assembly  
with bridge mount



Air driven mixer with lid mount





## Insulating Blankets

- Constructed of heavy duty vinyl
- 1-1/2" thick fiberglass insulation
- Easily installed and removed
- Opening for drum cover, fill access, 2" bung plug
- Optional heat tracing available
- Custom designs available



## Spray Washer

- Threaded connection or pinned sanitary design (meets 3-A standards)
- Removable lid or tank mount
- Corrosion resistant Teflon construction
- Provides 360° spray angle for complete coverage



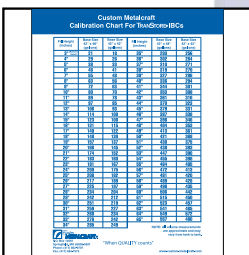
## ID Tags/Company Logos

- Custom designed
- For use in IBC tracking



## Heating/Cooling Transfer Jackets

- Can be applied from 1-4 sides, bottom and top
- Dimple design
- Channel design



## Calibration Chart

- Indicates gallons per inch
- Designed for 42" x 42" and 42" x 48" tank base dimensions



## Valve Repair Kits

- Available for many standard ball valves
- Standard or reversed handles
- Butterfly
- Flanged



## Valves

- Stainless steel, carbon steel, bronze, aluminum, polypropylene
- Standard port
- Full port
- Flanged or threaded
- Sanitary
- Butterfly valves



## Belly Band Heater

- 120 volt or 240 volt
- Flexible
- Calibrated to temperature requirements
- Complete with thermostat



## Tank Stands

- Standard clearance heights: 12", 24", 36", 48", 60"
- Custom sizes and colors available
- Stainless steel, carbon steel construction



## Fork Tubes

- 2-way or 4-way design
- Fork channels compatible with pallet jacks



## Anti-Teeter Bars

- Provide added security during rugged fork lift handling



## Internal Heat Coils

- Specifically designed to allow for start & finish temperature requirements
- Number of coil turns determined by application



## TRANSTACK™ Feed System

- Allows stacked IBCs to be interconnected & discharged together
- Maintains product flow
- Reduces down time
- Saves on floor space
- No venting to atmosphere



## Decals

- Tank safety/operation decals
- Special order decals available





## Pressure/Vacuum Relief Vent

- Fusible vent provides emergency venting in case of fire
- Detachable cover allows filling or emptying while the valve remains in place
- Provisions for tamper-evident seals that preventing unauthorized access



## Butterfly Valves

- Stainless steel or aluminum
- Sanitary
- Food grade
- Various sizes and models



## Quick Connect Fittings

- Stainless steel, carbon steel, aluminum, polypropylene
- Adapters
- Dust caps
- 15° offset adapters
- Dry break adapters & couplers



## Level Gauges

- Easy to read liquid level gauges
- UN accepted models
- Various styles and sizes



## Grinding & Polishing

- Stainless steel material weld finishes to 320 grit
- Black wheel weld finishes
- Electro-polishing
- Passivation



## Tank Legs

- Stainless steel, carbon steel
- Aluminum (cast or fabricated)



## Sanitary Outlet Assembly

- Sanitary sweep elbow, butterfly valve, clamp & cap
- Easily disassembled for sanitary cleaning procedures



## UN Pressure Relief Devices/Fusible Vents

- Stainless steel, polyethylene, polypropylene
- Standard pressure settings: 3.5 PSIG pressure, .5 PSIG vacuum
- 3" threaded fusible vent/fill port
- 3" 5-in-1 fusible vent
- 2" fusible vent
- 3" poly threaded fusible vent/fill port



## TRANSEAL™ Patented Pressure Relieving Bung Plug

- Stainless steel, carbon steel
- Relieves pressure during removal resulting in safer product handling
- EPDM, Viton, Teflon gaskets



## Clamp Rings

- 22-1/2" diameter or 18" diameter
- Plated steel or stainless steel
- Bolted style
- Special split clamp ring
- Lever lock clamp style



## Gaskets

- 22-1/2" diameter black EPDM (18" diameter available)
- 22-1/2" diameter white EPDM, silicone (FDA approved)
- Neoprene, Viton, Teflon-coated EPDM, Santoprene



## Drum Fill Covers

- 22-1/2", 18" diameter stainless steel, carbon steel, aluminum
- 16" x 10" quick fill access covers
- Threaded fill openings
- Available with fusible vent installed or flat raised center
- 22-1/2" snap-on PVC cover
- 22-1/2" diameter 10 gauge, heavy duty cover



# Custom Specialty Products Division

Our equipment lines include a wide range of standard products that meet or exceed industry requirements, as well as custom designed products and systems engineered to meet the most exacting specifications, including those of UN, ASME, USDA, FDA, API, UL, 3-A and cGMP. In addition to utilizing stainless steel for fabrication, we also have the experience to fabricate equipment from other high performance alloys such as Hastelloy®, Monel® and Titanium. Our industry-leading product lines include Pressure Vessels, Reactors, Process Tanks, Mixing Tanks, Column Lifts, Heat Exchangers, Dumpers, Ribbon and Paddle Blenders, Conveyors, Open-Top Vats, Portable DOT T-code Tanks and other custom engineered equipment and systems.



## PROCESSORS, PASTEURIZERS & KETTLES



These tanks are available in food grade finishes and can be custom designed and fabricated to your exact requirements.

## AGITATION

Agitation can be configured for many types of products, including milks and cheeses, vegetable pastes, cosmetic products, greases and oils, and liquid/dry material combinations. Agitators are designed for variable speed, with a combination of baffles and mixing styles to suit the process/product. Agitation can also be used in combination with heat transfer to decrease batch cycle option to eliminate burning of material on the sidewall or bottom head.



## PROCESS COLUMNS & SCRUBBERS



The Custom Metalcraft process columns are custom manufactured to specifications for the Ethanol and Alcohol Distillation, Chemical, Petrochemical, Petroleum, Pollution Control and other industries. Process columns can be fabricated from a variety of materials including stainless steel, Monel®, Inconel®, Hastelloy®, Titanium, Alloy 20 and others. These columns can be designed for internal and/or external pressure and may include external heat transfer surface and/or internal pipe coils.

### Features:

- ▶ Preparation for internal trays, packagings, distributors, mist pads and other process elements can be furnished
- ▶ Columns for product reaction, evaporation, distillation, retention, filtration and pollution control

# Custom Specialty Products Division



## PHARMACEUTICAL / SANITARY TANKS

These tanks are generally custom designed especially for the USDA & FDA regulated industries. Tanks are usually highly polished vessels with special emphasis placed on sanitary design, engineering and construction. These tanks, like other process vessels, frequently have heat transfer surface for heating and cooling.

### Options:

- Agitators, sight glasses, light glasses, probes, temperature well, pressure relief valves and rupture discs

## REACTORS

The Custom Metalcraft reactor is manufactured in a variety of sizes, materials, thicknesses, and material weld finishes for a wide range of pressures, temperatures and processes.

### Features:

- ▶ Available in alloy and stainless steel construction
- ▶ Material and weld finishes up to 320 grit
- ▶ Custom designed agitation
- ▶ Both half pipe and dimple heat transfer surface
- ▶ ASME design and construction



## HEAT TRANSFER

Custom Metalcraft dimple jacketed heat transfer surface has superior performance at both low and high pressure and extreme temperatures. Half pipe heat transfer is recommended for steam, water, oil or glycol type fluids at up to 100 GPM and pressures up to 200 psig @ -320° thru +500° F. Half pipe jackets can be formed from 1-1/2" to 4" diameter pipe. Open jackets are recommended on smaller vessels and are suitable for higher flow rates with low pressure drop.

## STORAGE TANKS

Custom Metalcraft designs and constructs vertical and horizontal storage tanks for all industries. These tanks can be designed for atmospheric or high pressure application with an ASME code stamp. Storage tanks can include heat transfer, agitation, insulation, and special fittings. Electric heating elements can also be supplied. Typical supports for storage tanks include saddles, legs, lugs or skirts.



# Custom Specialty Products Division

## SPECIALTY PROCESS TANKS



Specialty tanks can be of either cylindrical or rectangular construction. These tanks are ideal for bulk liquid storage, dairy production or temporary storage. Square tanks can be designed to maximize floor space, and can also be designed to be stackable. Specialty tanks can range in size from 5 to 30,000 gallons, and are constructed from all types of stainless steel or alloy material, with all available finishes. Custom agitation, heat transfer, specialty access manways and fittings can also be specified as options.

## CONVEYORS

Conveyors are designed for transport of product and for discharge into new or existing custom processing equipment or tanks.



## RIBBON BLENDERS



Single and double bowl blenders are available in capacities from 1/2 cu. ft. to 200 cu. ft.

## PIVOT DUMPER

Single pivot hydraulic dumpers used for flowable products. Stainless steel and sanitary designs. Capacities up to 5,000 lbs.



## SANITARY HEAT EXCHANGER



The patented\* CM-3-Tube Heat Exchanger is simple to install, operate and maintain. The CM-3-Tube 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 or our 2 Tube configuration is engineered in-house to your product specification.

\*U.S. patent number: US005174369A

## COLUMN LIFTS

Floor or ceiling mount with numerous receiver configurations. Available in stainless steel and sanitary designs. Capacities up to 5,000 lbs.



## DRUM DUMPER



Stationary and portable barrel dumper. Available up to 1000 pound designs with dump heights to suit production needs.



# Custom Specialty Products Division



## DOT T-CODE CERTIFIED PRESSURE VESSELS

TranStore 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.

### Features:

- ▶ Stainless steel or carbon steel construction
- ▶ T-code design

## MANIPULATOR

Simple and fully hydraulic design. Allows the operator to lift, rotate and manipulate loads within a confined space.



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



## COATING DRUMS

## SCISSOR LIFTS

### Features:

- ▶ Stainless steel construction
- ▶ Material or personnel movement
- ▶ Variety of power options
- ▶ Floor level or elevated loading
- ▶ 100 - 10,000 lbs. plus capacity
- ▶ Standard & custom sizes available



## MEAT / POULTRY VATS

### Features:

- ▶ USDA / FDA design & construction
- ▶ Stainless steel construction
- ▶ 18 to 80 cu. ft. capacity
- ▶ Legs, casters, fork channels, stackable
- ▶ Designed for fork truck / pallet jack movement
- ▶ Standard & custom sizes available



## COMPONENTS / PARTS

### Features:

- ▶ Tank and other component parts
- ▶ Replacement parts
- ▶ Quick delivery





**C**ustom Metalcraft, Inc. has the products and expertise to help solve your specific material handling problems. Your company can rely upon Custom Metalcraft for your Custom Packaging and Material Handling solutions.

Visit our web site at [www.custom-metalcraft.com](http://www.custom-metalcraft.com)



2332 E. Division • P.O. Box 10587

Springfield, MO 65808-0587

Phone: (417) 862-0707 • Fax: (417) 864-7575