Reusable IBC Systems
For Maximum Protection, Hygiene & Efficiency
Buckhorn is pleased to introduce a wide range of Intermediate Bulk Containers (IBCs) for safe, sound and secure liquid material handling. The Buckhorn IBC selection is represented by two distinct lines: the new Caliber™ Series, and Buckhorn’s original Citadel™ and Citadel-v™ line – providing a variety of choices for any application!

These injection and structural foam molded containers are compact, collapsible and designed to handle both fluid and dry products. Their clear advantages over traditional single trip, disposable alternatives include:

- Molded from FDA-approved materials
- Substantially lowers packaging costs and cost per trip with a returnable/reusable system
- Limited use of packaging materials (only the liner bag is disposable)
- Hygiene – containers do not rot or become corroded, and are easy to clean
- Safety – improved product protection and storage
- Easy to fill, discharge and transport
- Optimal space utilization – stackable and foldable
- Secure stacking up to five high with up to 3,000 lbs. of product*
- Withstand temperature extremes
- Certified for rail shipping
- Tamper-evident features
- RFID and other identification options available
- Can be filled and shipped with hot liquids

* Capacity is dependent upon application and use environment. Check with Buckhorn for suitability in your application. Specifications subject to change without notice.

**Improve Hygiene** Buckhorn IBCs reflect the highest standards of hygiene for handling requirements of food, pharmaceuticals, cosmetic materials and non-hazardous chemicals. Our Caliber and Citadel IBCs are constructed from materials approved for use with food and feature smooth, hygienic designs that are easy to keep clean. The IBCs’ flexible liner bag, available from a variety of suppliers, is sterile and can be filled without introducing air into the container.

**Eliminate Waste** A reusable container system eliminates the need for large quantities of disposable packaging material – and the associated waste and costs for disposal. Collapsible bulk container systems save on return transport compared to a rigid system, and reusable plastic container systems in closed loop supply chains dramatically reduce environmental impact compared to other common systems for liquid handling.

**Maximize Safety** Buckhorn’s Caliber and Citadel IBCs are designed to protect the quality of your products during extremely rough handling – from loading to unloading and return. Our IBCs are tested for transport by truck, rail and sea container. Particular consideration in design has been paid to railway transport, which can entail hard impacts, stresses and strains.

**Grow Your Bottom Line & Reduce Costs** Buckhorn IBCs are high performance, “bag-in-box systems” that save you money and time on transport, handling and storage. Buckhorn IBCs combine the benefits of a rigid returnable container system, with the simplicity of disposable products – without the added waste! The design features of Caliber and Citadel IBCs guarantee a long service life and the safe delivery of your products.
Buckhorn IBCs are designed for maximum logistics & handling efficiency...

Quick Collapse & Return
Remove the liner bag from the container, and one person can disengage and collapse the sidewalls. Collapsed IBCs require minimal storage space, and their efficient stacking and cubing of transport systems deliver substantial cost savings on return freight.

Simple Discharging
Discharging product from Caliber and Citadel IBCs is easy; the liner bags expand when filled and contract when emptied. The bag contains no air so there is no risk of oxidation or skinning. Available in both top and bottom discharge styles.

Cost-Saving Transport
The design of Caliber and Citadel IBCs maximizes space usage in all forms of transport, cubing trailers, railcars and sea containers. The low tare weight on the containers compared to most other material handling containers delivers lower transport costs.

Efficient Filling
Buckhorn Caliber and Citadel IBCs are designed for ease of use and compatibility with existing filling systems. A wide range of sterilized liner options are available for maximum hygiene.

Easy Set Up
One person can easily prepare a Buckhorn IBC for use. The walls are raised and locked in place by hand. The liner bag is then installed inside the container with valves locked in place.

Secure Stacking & Storing
These strong and durable IBCs can be stacked up to five high when loaded. They are weather resistant and can be filled and stored outdoors for extended periods while maintaining superior product protection.
Caliber™ Series Intermediate Bulk Containers

Caliber IBCs are injection molded of food grade polypropylene and have completely smooth surfaces to satisfy the strictest hygienic standards. They are collapsible, reusable, clean and cost-effective throughout the entire handling process. Their low tare rate helps minimize transport costs, and their durable construction tolerates temperature ranges from 0° to 140°F (-17.8° to 60°C). Available in three sizes: 270 gallons, 300 gallons and 315 gallons, Caliber IBCs can handle different fluids under varying conditions. Caliber can also be used for dry products such as powders, granulate and flakes.*

- Designed to withstand the toughest demands, including filling under pressure, long-term outdoor storage, rail transport and hot fill applications
- Available in solid and bottom discharge versions
- Lids stack directly on top of each box when collapsed
- Compatible with form-fit and pillow style liners – sterile or non-sterile styles depending on your application

In designing this IBC, the operators’ concerns have been top of mind. Simple handling is a basic principle, steering product development decisions and leading to the creation of this truly ergonomic, user-friendly system.

Caliber 270 IBCs provide complete utilization of available space in a sea container.

Greater selection for total protection

Caliber 315 Top Discharge B248444700

**Capacity is dependent upon application and use environment. Check with Buckhorn for suitability in your application. Specifications subject to change without notice.**
& added value in your operations...

Secure Stacking & Outdoor Storage
Caliber containers can be securely stacked up to five high when filled – even for long-term, outdoor storage. Base and lids interlock to prevent shifting.

Collapsible
Caliber containers can be easily and quickly collapsed when empty for space-saving storage and distribution. Up to 2.5:1 return ratio.

Sidewall Locking System
Adds Strength
Post-and-pocket corner locking system on 270 and 315 models; corner rod locking system on 300 model. Locking systems ensure optimum strength for high pressure filling and rough rail transport.

Tamper Evidence
Tamper evident seals can be placed on the lid and on discharge openings.

Bottom Discharge Styles
All Caliber IBCs feature built-in sloped discharge option that enables fast, unhindered flow for emptying.

Stacked Collapsed Containers
Caliber lids stack directly on top of each container when collapsed.

One Caliber 315 IBC container holds the equivalent liquid content of nearly six 55-gallon barrels in the same footprint taken up by four barrels.

One Caliber
Nearly six 55-gallon barrels

## Caliber 270
- 267 gallon capacity

## Caliber 300
- 295 gallon capacity

## Caliber 315
- 315 gallon capacity

### Dimensions

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Stock Color: Gray

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Citadel™ Intermediate Bulk Containers

With Citadel™ and Citadel-v™ collapsible Intermediate Bulk Containers, Buckhorn continues to set the standard for secure storage and transport of bulk liquid and semi-solid materials.

The Citadel IBC:
- Structural foam construction
- Sized to handle 302 gal./3,000 lbs. capacity
- Steel rods embedded in sidewalls and corners enable Citadel IBCs to stack up to five high for long-term outdoor storage
- Reduces contamination from wood products and withstands the effects of sun, wind, rain, ice or snow

Citadel Advantages

Valuable Benefits
- **Ergonomic:** Designed for safe operation. No sharp edges or exposed nails and splinters to injure workers or damage product
- **Space Savings:** Efficiently cubes out warehousing space and transportation vehicles to reduce freight and handling costs
- **Cost Effective:** Eliminates waste and costs associated with wood packaging and metal banding. Stands up to rough handling. Easy to setup and collapse. Completely recyclable
- **Superior Quality:** Designed and tested under ISO 9001:2000 standards
- **FDA-Approved Materials:** Safe for use in food environments
- **Environmentally Friendly Packaging:** Reduces waste and disposal costs

Greater protection and safety...

...Eliminating the dangers of protruding nails, splinters and sharp metal banding of other packaging types.

Secure, Efficient Stacking
- Interlocking lid and base – recessed lid channels accommodate base feet and runners for secure, interlocked stacking during transit and long-term storage
- Stack up to five containers high

True 4-Way Entry
- Easy handling from any orientation

Hand Grips
- Assist panel set-up and collapse

Spring-Loaded Lids
- On both Citadel and Citadel-v lids lock down to ensure they stay in place during transport

Contoured, channeled lid prevents the accumulation of water and debris. Lids fit flush with walls to prevent damage in transit.

For maximum volume capacity, Buckhorn recommends the use of form-fit liners that match the shape of the Citadel.

…Making Caliber & Citadel the versatile IBCs of choice to meet your challenges!
**Citadel- v™ Intermediate Bulk Containers**

The Citadel- v™ is a bottom discharge IBC that incorporates the added feature of an easy-to-reach, recessed fitment port in its base. The discharge area has a unique, high-impact cover for added content security and protection from damage.

**The Citadel-v IBC:**
- Suitable for many food processing, cosmetic, chemical, pharmaceutical and other non-hazardous liquid product handling applications
- Compatible with form-fit and pillow style liners from a variety of suppliers
- Eliminates one-way packaging and waste disposal costs
- 302 gal/3,000 lb. capacity
- The 48” x 45” x 46” footprint cubes out warehouses, trailers, and rail cars, reducing wasted storage space by up to 40%
- Structural foam construction
- HDPE material withstands temperatures from -20º to 120ºF (-29º to 49ºC)

The durable construction of Buckhorn’s Citadel and Citadel-v IBCs ensures that they will withstand rough handling and shipping for long-term performance and savings, trip after trip.

**Citadel-v Benefits:**
- Unique, high-impact cover protects fitment from damage and cross contamination
- Centrally located in base for ease of use
- Accommodates 2” valves

**Citadel-v™ Intermediate Bulk Containers**

**Model No.**
- **BP48454600PF600***
- **TP48450300PF000**
- **BQ484546V051600***
- **TQ48450300PF000**

**Dimensions**
- **Outside** L” (A) W” (B) H” (C)
- **Inside** L” (D) W” (E) H” (F)

**Weight**
- **lbs.**
- **Volume** Cu. Ft.
- **Gallon**
- **Ratio**
- **Height Filled**
- **Opened**
- **Collapsed**

**Truck Capacity**
- **48’**
- **53’**

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*All 75 w/Lid. **Capacity is dependent upon application and use environment. Check with Buckhorn for suitability in your application. Specifications subject to change without notice.***

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**Multiple lid locks**

**Base Rails**
- Allow efficient handling on conveyor systems

**Bottom Discharge**
- BQ484546V051600***

**Smooth interior and exterior surfaces.**

**Easy, one-person set-up and fold down.**

**Built-in sloped discharge area enables fast unhindered flow for emptying.**

**Multiple identification areas for cards and labels.**

**Citadel-v Benefits:**
- Unique, high-impact cover protects fitment from damage and cross contamination
- Centrally located in base for ease of use
- Accommodates 2” valves

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Visit www.buckhorninc.com or call 800-543-4454 for more information.
### Gallon Capacities
- **Caliber**: Three sizes: 267, 295, 315 gal.
- **Citadel IBC**: 302 gal.
- **Citadel V**: 302 gal.

### Construction
- **Caliber**: High pressure injection molded
- **Citadel IBC**: Structural foam
- **Citadel V**: Structural foam

### Material
- **Caliber**: Polypropylene
- **Citadel IBC**: Polypropylene
- **Citadel V**: High Density Polyethylene

### Tare Weight with Lids
- **Caliber**: 205 lbs. (270 model), 225 lbs. (300 & 315 models)
- **Citadel IBC**: 276 lbs.
- **Citadel V**: 276 lbs.

### Base Style
- **Caliber**: Feet
- **Citadel IBC**: Rails
- **Citadel V**: Rails

### Entry
- **Caliber**: 4-way entry for forklifts, 2-way for pallet jacks
- **Citadel IBC**: True 4-way entry
- **Citadel V**: True 4-way entry

### Stacking
- **Caliber**: Lids stack on top of each collapsed box
- **Citadel IBC**: Lids stack separately
- **Citadel V**: Lids stack separately

### Fitment Cover
- **Caliber**: Disposable gland adapters and cap sold separately
- **Citadel IBC**: Not applicable
- **Citadel V**: Integrated

### RFID
- **Caliber**: 2 per container standard
- **Citadel IBC**: Optional
- **Citadel V**: Optional

### Lids
- **Caliber**: Rotating locking handles
- **Citadel IBC**: Spring latch and sliding locks, flush with container
- **Citadel V**: Spring latch and sliding locks, flush with container

### Bottom Discharge
- **Caliber**: Option on each model
- **Citadel IBC**: Not applicable
- **Citadel V**: Standard

### Rail Certified
- **Caliber**: Yes
- **Citadel IBC**: Yes
- **Citadel V**: No

### Operating Temperature
- **Caliber**: 0° F to 140° F / -17° C to 60° C
- **Citadel IBC**: 0° F to 140° F / -17° C to 60° C
- **Citadel V**: -20° F to 120° F / -29° C to 49° C

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**IBC Accessories - Plus Custom Solutions!**

Contact a Buckhorn Sales Representative for assistance with accessories...

- **Liner Bag**: A wide range of Liner Bags are available for Caliber and Citadel IBCs from a variety of suppliers. The Liner Bag can be made of different materials to provide desired performance.

- **Tamper Evident Cap**: The Tamper Evident Cap for bottom discharge Caliber 270, 300 and 315 models protects the discharge area during transportation and storage.

- **Gland Adapter**: The Gland Adapter for bottom discharge Caliber 270, 300 and 315 models easily attaches to liner bag to secure the bag’s fitment valve to the container.

- **Filling Bridge**: The filling gland on the liner bag is connected to a Filling Bridge for easy filling. Available for both Caliber and Citadel IBCs.

- **Tamper Evident Seal**: The Tamper Evident Seal for Caliber 270, 300 and 315 is used to secure the eight locking handles on the lid.

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**CUSTOM CONTAINERS**

Let Buckhorn assist you with any custom container need for bulk liquid handling. Our consistent innovation, engineering excellence, multiple manufacturing processes and application expertise are unmatched in the industry!

For more details, call (800) 543-4454

www.buckhorninc.com

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**Packaging Your Future**