96 Gallon Detailed Product Specifications

The 96-gallon rollout cart consists of an injection molded, high-density polyethylene body, durable plastic lid, two injection molded wheel assemblies, a steel axle, a lift bar, and two hinge pins.

The 96-gallon rollout cart is compatible with the fully automated arm lifter systems, the standard semi-automated bar lifter systems, and the European comb lifter systems.

Volume Capacity:

The actual volume is 96 gallons with the lid closed. This volume does not include any portion of the lid that is above the rim of the container.

Load Rating:

The 96-gallon rollout cart is capable of accommodating a load of up to 336 pounds.

Weight:

The complete assembled weight of the container is 40 pounds.

Wind Tunnel Testing:

The 96 gallon cart passes wind tunnel testing at the following speeds: Front–45 mph, Sides–48 mph, back–53 mph.

Dimensions:

Cart Body Height: 43”
Overall Height: 46”
Overall Width: 26”
Overall Depth: 34.5”

Container Body:

The container body is injection molded from High Density Polyethylene (HDPE). Both the interior and exterior surfaces are smooth. The interior is free of crevices and recesses where refuse could become trapped. Minimum wall thickness is .175” throughout the body of the container and .185” throughout the bottom of the container.
The top rim of the container body is reinforced with a rib that extends around the entire perimeter. The rim has a structural grid for extra support. This adds stability to the container and provides a flat surface for the lid. The handles are integrally molded into the container body at the top rim. The top rim also has a drip edge that keeps rain and insects out.

The Cascade Cart has an in-molded upper saddle lift area and a lower lift bar that freely rotates and is easily inserted into the cart body. The lower lift bar is made of a poltruded, composite material that is stronger than standard steel. A poltruded bar: 1) will not rust – it is made of fiberglass and an engineering grade plastic; 2) is strong – the strength is equal to a 1” diameter steel bar; 3) returns to its original straight form if it is flexed or bent. Unlike in-molded plastic lift bars that can break and render a cart unrepairable, Cascade’s lower lift bar can be easily replaced if necessary.

The bottom of the container has molded in wear strips that extend around the bottom perimeter. These wear strips protect the container and add strength and structure to the container. The axle area in the lower rear of the cart provides an area that can be used as a toehold for tipping the cart from a storage position to a rolling position.

Cascade Carts are designed to be nested or stacked for transport. This saves on transportation and handling costs. Stacking ribs are molded into the top rim of the container body to prevent jamming (sticking together) and allow for easy unstacking. Carts are stacked 9 high with axle and wheels attached to the bottom container for easy moving.

**Lid:**

The lid is injection molded from HDPE. It is attached to the cart body with four hinge pin points along the rear edge of the cart body. The lid rotates a full 270 degrees. The lid, when closed, rests on the top rim of the container body. This allows a secure tight fit around the entire perimeter between the lid and cart body. This prevents rain, insects, and vermin from entering the container, and odors are contained when the lid is closed. A molded in rain lip on the top rim of the container base prevents rain from entering. The lid does not require a latch or snap fit; therefore, children cannot get trapped inside. The lid and container, when empty, can withstand high winds without tipping over or causing the lid to open. An information hook is molded into the underside of the lid. This hook allows bagged informational material to be hung from the hook, inside the container body, protected from the elements.

**Hinge Pin:**

The hinge pin is injection molded from HDPE and secures the lid to the integrally molded lid hinge and handle detail. It is installed using a rubber mallet. At installation, the truncated conical end of the hinge pin compresses and snaps into the pocket detail in the handle detail. This prevents vandalism and securely fastens the lid to the container
base. The hinge pin can be removed with a special tool available from Cascade. Two hinge pins are used to secure the lid to the container.

**Axle:**

The axle has a .844” diameter and is 23” long. It is manufactured from 1010 steel that has been coated with zinc dichromate plating to prevent rust and is mounted on the cart body through axle fittings that are integrally molded as part of the cart body.

**Wheels:**

The wheel is made of injection molded high-density polyethylene. For ease of assembly, wheels are attached with the snap-on method. The snap-on wheel attaches securely to the cart by means of a self-locking hub with internal wheel-retention details that snap into a corresponding groove on the axle. The wheels are slightly recessed into the container body. The overall diameter of the wheel is 10” with a width of 1 3/4”.

**Markings:**

Cascade carts can be hot stamped with a unique sequential serial number to facilitate distribution and control. The customer’s name and/or logo can be hot stamped on the container’s lid and body. All carts have safety and use instructions molded in the lid and a date wheel in-molded into the cart for traceability. Cascade can also in-mold full color graphic images into the surface of the lid. The image cannot be scratched off, disfigured from use, discolored, or damaged. Labels are available in two sizes: 3” x 13” or 9.5” x 14.5”.

**RFID:**

Cascade’s carts can be fitted with an UHF, Gen 2, RFID Tag. The tag is fully encased in high density polyethylene to protect it from harsh environmental and mechanical conditions/abuse. The plastic encasement of the RFID tag must be UV stabilized for a minimum of 10 years. The tag is attached under the front rim of the container body by an integrally molded, snap in locking feature.

**Workmanship:**

The plastic material, high-density polyethylene, is manufactured from virgin raw materials by major petrochemical companies (i.e. Nova Chemical, Phillips, etc.) and includes no recycled or regenerated plastic or foreign material.

Up to 30% recycled material (PCR) content is available upon request.

Injection molded parts show no foreign substances, shrink holes, cracks, blowholes, or webs. Also, there are no color streaks.
Color:

Standard colors are gray, green, blue, and black. Custom colors are available.

All injection-molded parts are specifically prepared to be colorfast so that plastic material does not alter appreciably in normal use. Due to the high quality of the pigment package and the injection molding process, Cascade Carts have excellent color fastness.

UV Light Stabilization:

The Cascade Cart is stabilized against ultraviolet degradation with not less than one half of one percent of UV additive. An additional anti-oxidant package is included to assure the integrity and longevity of the container. This stabilization package endures a 10-year life.

Thermal Stabilization:

The Cascade Cart is stabilized against thermal degradation with an anti-oxidant additive. Thermal degradation will occur due to environmental or process related influences without this additive. The occurrence of thermal degradation results in container failure.

Recyclability:

The 96-gallon Cascade Cart is produced with a fully recyclable high-density polyethylene (HDPE) resin. This allows the container to be recycled and reused after its useful life.

Quality Assurance Procedures And Performance Testing:

Cascade Carts meet the standards set forth in ANSI Z245.30-2008 and ANSI Z245.60-2008. These standards were designed to simulate the type of situations the container would encounter during actual use. Cascade Engineering was a member of the Standard Development Subcommittee that drafted both ANSI standards. As a result of our involvement, we have done extensive in-house testing which exceeds the standards set forth by ANSI. We have also had extensive testing done by Entela, Inc., an independent engineering and testing laboratory.

Cascade Engineering’s Container Group is proud to be the first U.S. based cart manufacturer to be ISO 9001 registered. ISO 9001 is a standardized quality system recognized internationally and ensures quality products, timely delivery, and superior service.