

## Container Handler

Used Container Handler Temecula - Container handlers, also known as cargo ships and container ships transport their load in a large intermodal container. This type of shipping is called containerization and it is a specific kind of freight transport that carries non-bulk types of seagoing cargo. The capacity of these specialty ships is equal to twenty-foot loads. Typical loads range with a mixture of 20-foot and 40-foot containers. Approximately ninety percent of non-bulk cargo across the globe is transported by container ships. As one of the largest commercial sea-worthy vessels, container ships are the main rival of oil tankers among the largest ships on the ocean. Dry cargo is categorized into two main types: break-bulk cargo and bulk cargo. Coal and grain are considered to be bulk cargo items. They are typically transported in their raw form within the hull of the ship, free from packages in immense volume. Break-bulk cargo typically is made up of manufactured items that are shipped in packaging. Prior to containerization being invented in the 1950s, break-bulk materials were loaded, secured, unlashd and unloaded one piece at a time from the ship. When the cargo was grouped into containers, there were approximately 1000-3000 cubic feet of cargo that can be simultaneously moved after each unit has been standardized and secured. Break-bulk cargo shipping has greatly increased overall efficiency. Thanks to these new systems, shipping time has been reduced by eighty-four percent and costs have come down by roughly thirty-five percent. In 2001, over ninety percent of non-bulk materials were recorded as being transported in containers. In the 1940s, the first container ships were made from tankers that underwent conversion after World War II. Container ships do not rely on individual hatches, holds and dividers that are part of regular cargo ships. Essentially the container ship's hull is similar to a huge warehouse that uses vertical guide rails to divide it into cells. These cells have been designed to transport the cargo in containers. Most cargo ships are designed from steel but additional materials such as plywood, fiberglass and wood are used. As containers have been designed to completely transferred to and from coastal carriers, semi-trailers, trucks, trains and more, these containers are categorized due to their function and size. Containerization has revolutionized the shipping industry; however, it did not start out in the easiest fashion. Initially, ports, railway companies and shippers were concerned regarding the extensive costs that came with constructing infrastructure, ports and railways required to accommodate the cargo ships and transporting items with rail and roads. Various trade unions were skeptical about huge job loss with dock and port workers based on the assumption that containers would eliminate numerous cargo handling manual jobs among ports. After roughly 10 years of legal battles, container ships initiated international service. In 1966, a container liner service from Rotterdam to the US began and this transformed global shipping. Container ships only take a few hours to be loaded and unloaded, compared to the days a traditional cargo vessel required. Shipping times have been shortened in between ports extensively along with labor finances. It only takes 3 weeks to have materials delivered from Europe to India as opposed to the months it used to require. Overall, there is less damaged cargo thanks to less physical handling and reduced cargo shifting due to properly securing loads. Before shipping, containers are closed and only opened after they arrive at their new location to prevent theft and damage. Container ships have reduced shipping time and lessened shipping expenses, resulting in enhanced international trade growth. Cargo that was previously shipped in bags, bales, cartons, barrels or crates now arrives in sealed containers from the factory. A product code on the contents is traced with the help of computers and scanning equipment. Technology has made this tracking system accurate and exact to enable a two week voyage to be timed for arrival within an accuracy rate of under fifteen minutes. This time management has helped with manufacturing times and guaranteeing delivery. Raw materials are delivered in less than an hour in sealed containers within an hour prior to being utilized for manufacturing. This results in more accuracy and less inventory costs. Shipping companies provide boxes to the exporters for loading merchandise into. They are delivered into the docks by rail or road or a combination of both to be loaded onto container ships.

Containerization has streamlined the process of loading by reducing the number of workers and hours it takes to fit cargo into their holds. The shipping industry today relies on cranes either installed on the ship or on the pier to situate containers on board. Once the hull has been completely loaded, more containers can be secured onto the deck. The key design element for container ships has been efficiency. Containers may be carried on break-bulk ships. Cargo holds that have been designated to cargo ships have been specially designed to enhance the processes of loading and unloading in order to keep containers safe while crossing the seas. A specially designed hatch creates openings to access the main cargo holds from the deck. A raised steel apparatus called the hatch coaming surrounds these openings that are found along the cargo hold breadth. There are hatch covers located on top of the hatch coamings. Wooden boards and tarps initially covered the hatches and held the battens secure until the 50s. Nowadays, solid metal plates comprise the hatch covers and cranes lift them onboard and off of the ship. There are other hatch models that rely on articulated mechanisms that use strong hydraulic rams for opening and closing. Cell guides are a necessary component in cargo ship design. Attached to the cargo hold in the ship, cell guides are vertical pieces of metal that help organize the cargo. These guide containers into specific rows during the loading process and offer support during sea travel. Since the design of the container ship utilizes cell guides in such abundance, the UN Conference on Trade and Development relies on them to separate traditional break-bulk cargo ships and container ships. There is a system used in cargo plans consisting of three dimensions to outline a container's position aboard the ship. The bay is the first coordinate, starting at the front of the container ship and increases aft. The second coordinate is the tier. The first tier begins in the lower portion of the cargo holds with the second tier found on top of the first tier and continuing in that fashion. Next, the third row forms the third coordinate. Rows situated on the starboard side feature odd numbers and rows situated on the port side showcase even numbers. The cargo situated near the centerline showcases lower numbers and as the cargo increases further from the center, the numbers get higher. It is possible for container handlers to carry twenty, forty and forty-five foot containers. The biggest sizes only fit above the deck. The forty-foot containers comprise most of the load or roughly 90% of container shipping. Roughly 90% of the freight in the world is delivered via container shipping. Approximately eighty-percent of global freight is shipped via forty-foot containers.