

Container Handler

Used Container Handler Everett - Also known as container ships or cargo ships, container handlers use large intermodal containers to transport their goods. 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. Most loads are a mix of 20' and 40' containers. Container ships are responsible for transporting roughly ninety percent of non-bulk items across the globe. These ships are one of the main oil tanker rivals due to their size as one of the biggest sea-worthy ships. There are two main categories for dry cargo which are break-bulk 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, unlashed and unloaded one piece at a time from the ship. Grouping cargo into containers allows for 1000-3000 cubic feet of cargo to be simultaneously moved once every container has been secured with standardization techniques. Overall efficiency has largely increased with break-bulk cargo shipping. Thanks to these new systems, shipping time has been reduced by eighty-four percent and costs have come down by roughly thirty-five percent. Approximately 90% of non-bulk items were shipped in containers in 2001. The initial container ships in the 1940s were designed from tankers that were converted post-WWII. Container ships do not rely on individual hatches, holds and dividers that are part of regular cargo ships. The hull of the container ship is similar to a sizeable warehouse that uses vertical guide rails to divide the area into cells. These cells have been designed to transport the cargo in containers. Most shipping containers are constructed from steel; however, additional materials including 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. At first, many companies and shippers were worried about the huge costs associated with constructing ports, railway infrastructure and the roads needed to transport items via cargo ships. There was skepticism regarding potential dock and port worker job loss when containerization was announced for fear that numerous manual jobs would disappear. There was a decade of legal battles prior to the container ships starting international service. By 1966, after the first container liner service began from Rotterdam, Netherlands to the USA, cargo shipping was transformed. Loading and unloading of cargo ships has been reduced to a few hours instead of the days it used to take traditional cargo vessels. Cutting labor finances and shortened shipping times between ports has been hugely successful. It only takes a few weeks to deliver items from India to Europe and vice versa, whereas it used to take months previously. Generally, there is less damage to materials thanks to less frequent handling. Securing loads properly also helps with less cargo shifting during transport. Containers are closed before shipping and opened once they arrive at their destination to prevent disruption, damage and theft. There has been greater international trade growth due to the reduced shipping expenses and travel time delivered by container ships. Cargo that used to arrive in bales, crates, bags, cartons or barrels now arrives in containers sealed from the factory. A product code on the contents is traced with the help of computers and scanning equipment. Amazingly, technology has advanced with this accurate tracking system to be so exact that a 2week voyage can be timed for arrival with accuracy less than 15 minutes! Manufacturing times and delivery have been greatly enhanced with these advancements. Raw materials show up in sealed containers from factories in under an hour prior to being used in the manufacturing industry; resulting in fewer inventory expenses and greater accuracy. Boxes are provided by shipping companies to the exporters to facilitate loading merchandise. Items are delivered into the docks by road or rail or a combination to be loaded onto cargo ships. It used to take huge groups of men and numerous hours to fit cargo into different holds prior to

containerization. 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. Efficiency has been one of the main design elements for cargo ships. Containers may travel on break-bulk vessels. 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. These openings are situated along the entire cargo hold breadth, surrounded by a raised steel structure called the hatch coaming. There are hatch covers located on top of the hatch coamings. Until the 1950s, wooden boards and tarps were responsible for securing the hatches and holding down the battens. Nowadays, solid metal plates comprise the hatch covers and cranes lift them onboard and off of the ship. Additional hatch models use hydraulic rams and articulated mechanisms for closing and opening. Cell guides are a necessary component in cargo ship design. These vertical structures are made of strong metal that is attached to the cargo hold on the ship. These guide containers into specific rows during the loading process and offer support during sea travel. The container ship design relies on cell guides so much that organizations as the United Nations Conference on Trade and Development use them to differentiate between regular break-bulk cargo ships and container ships. There are three dimensions used in cargo plans to determine the position of the container on board the ship. The bay is the first coordinate, starting at the front of the container ship and increases aft. The tier forms the second coordinate. It starts in the bottom area of the cargo holds and the second tier is located on top of the first one and continues to grow. Next, the third row forms the third coordinate. Rows are situated on the ship's port side have even numbers while those found starboard have odd numbers. Rows found along the centerline are given lower numbers and these numbers increase for slots situated further from the center. 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 eightypercent of global freight is shipped via forty-foot containers.