

CONTAINER TRANSPORT SYSTEM AS A MEANS OF SAVING RESOURCES

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Analyzing the transportation of goods as one of the constituent elements of the transport system, it can be argued that container transportation today occupies a leading position in the delivery of goods around the world.

The use of containers has also facilitated the globalization of trade by enabling goods to be transported across long distances more easily and quickly. Container ships, trains, and trucks can carry large quantities of goods in a single journey, making it possible to move goods between continents in a matter of days or weeks.

Furthermore, containerization has enabled the development of inter-modal transportation networks, where goods can seamlessly transition between different modes of transport such as ships, trains, and trucks.

The breadth of use of this type of transport is due to its efficiency, which lies in its main advantages:

1) Reduction of container transportation costs due to fast cargo handling (loading, unloading), which, in turn, reduces the cost of delivery. As a result, the speed of cargo delivery in containers is 30-40 km per day higher compared to the delivery of goods in small batches.

2) The container ensures the integrity of the cargo and protection from various weather conditions, as the container is completely closed and sealed.

3) The use of container modules and their standardization allows us to automate the entire process of container cargo handling.

4) Containers are standardized in size and connection devices, which also unifies the mechanisms for unloading and loading containers.

The container is a small storage module that reduces the need for storage space and at the same time allows you to transport goods without boxes, in workshop or lightweight packaging.

The packaging of the goods is an obligatory stage of preparing the goods for transportation. When transporting goods, the packaging of goods is carried out using boxes. A box is the main element of a package, which is a special product for placing certain products. The following types of boxes are used for cargo transportation: boxes, barrels, pallets, bags, drums, etc. Most of them are made of lumber. As you know, lumber is a woodworking product, the raw material for the production of which is the wood of any tree. Consequently, the use of containers made of high-quality alloy steel reduces the consumption of most types of boxes.

A container terminal is an element of the container transportation system, the purpose of which is to transform container flows when transferring them from one type of transport to another.

The purpose of such a transformation of cargo flows is to ensure the most efficient further transportation of goods, goods and materials.

The container terminal is mainly located in the port area. This is due to the fact that special container cargo ships are used for mass transportation of containers. Modern container ships have an exhaust gas recirculation system, which helps to reduce harmful emissions into the atmosphere and saves fuel by increasing the capacity of the power plant.

Automation of the container terminal, first of all, involves saving human resources. Modern organizations are increasingly dependent on the ability of employees to effectively use their abilities and intelligence for the benefit of production. Due to the period of innovation, modern workers are focused not on their ability to work, but on its result; not on labor, but on consumer value embodied in certain products and technologies.

Thus, it can be underlined that automation of a container terminal is an example of the result of the activity of “knowledge workers”

References

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