

Cost of using collapsible containers in a network at ports

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Should a port use foldable containers?

Using primary and secondary data sources the pros and cons of using foldable containers as compared to standard containers are identified, and it is shown that a port can gain cost efficiencies by using foldable containers.

How foldable containers affect the cost of shipping?

Furthermore the use of foldable containers can have significant impact on the cost of shipping. Shipping companies can save the additional costs of handling and carrying empty containers when they call at a port and the additional capacity in the ship can be used for extra cargo.

What is a foldable or collapsible container?

Foldable or collapsible containers have been introduced into the market in order to address the issues mentioned above regarding standard containers. Replacing standard containers, which is a well-established method of cargo transportation, with foldable containers is proving difficult.

Why are shipping lines hesitant to use foldable containers?

Furthermore, given that port terminals or container depots may not have the right equipment for the folding and unfolding of the containers, shipping lines may be hesitant to adopt the technology and this may lead to other issues such as lower durability and high purchasing costs of foldable containers (Ng, 2012).

What causes "empty running"? Empty containers clog roads ...

FLDs can be folded and bundled four high when repositioned, reducing space by 75%, aiding efficient utilization, and lowering the handling burden at ports, meaning they may be more cost ...

What causes "empty running"? Empty containers clog roads and ship terminals, causing port congestion and

leaving little space to unload ships. This then forces many ships ...

When the rate of production goes up, the cost of collapsible containers will come down. Using collapsible containers to save the ...

We use the model to minimize total transportation costs, inventory holding, handling, folding and unfolding, container leasing, and installing facilities that accommodate ...

In this paper, a mathematical model is developed to describe deterministic and stochastic scenarios for a closed-loop container dynamic flow system. The uncertainties in a ...

Using primary and secondary data sources the pros and cons of using foldable containers as compared to standard containers are identified, and it is shown that a port can ...

Using the newly developed foldable container can not only significantly reduce logistics costs, but also bring positive environmental impacts such as reducing greenhouse ...

When the rate of production goes up, the cost of collapsible containers will come down. Using collapsible containers to save the billions spent in global repositioning is a win ...

Collapsible containers are typically two to three times the cost of a standard container. The question is whether the use of a collapsible container can reduce costs to such ...

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Although applying collapsible containers reduces transport cost, it may cost more on producing, handling, and maintenance comparing with standard containers.

Abstract--This study investigates the commercial viability of foldable containers from a carrier's perspective. A cost-benefit and sensitivity analysis is conducted for operating regular and ...

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