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Title: Cost-effectiveness analysis of automatic folding container

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Can foldable containers improve logistics management?

Capacity Improving Logistics Management Using Foldable/Collapsible Containers: A Case Study G 179 G constraints in ports for storing and repositioning empty standard containers are major concerns in the logistics and port industry. As an alternative, foldable containers have been introduced into the market.

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.

Do foldable containers have economic advantages?

Although the economic advantages of foldable containers seem evident, we explain that these types of boxes have to cope with scepticism about technical performance, the complexity of the folding and unfolding process in particular, as well as logistical and organisational problems with using foldable containers. Content may be subject to copyright.

Do foldable containers reduce container fleet management costs?

The effect of foldable containers on the costs of container fleet management in liner shipping networks. Maritime Economics & Logistics. 2012. Vol. 14. No. 4. P. 455-479. DOI: 10.1057/mel.2012.16. Shintani, K. & Konings, R. & Imai, A. Combinable containers: A container innovation to save container fleet and empty container repositioning costs.

This study considers the empty container repositioning problem of shipping companies that use standard and 3-in-1 foldable ...

In this paper we analyse why previous initiatives for foldable containers failed and discuss the conditions required for successful ...

This paper presents the design of a new 5-tier stacking foldable container with convenient folding and

unfolding process and that can be produced economically compared to previous products.

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 ...

The impact of fuel price, container transportation quantity, ship tanker capacity and carbon tax rate on ship refueling strategy, speed and ...

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 ...

In this paper we analyse why previous initiatives for foldable containers failed and discuss the conditions required for successful commercial applications.

In this study, we conducted an analysis of the effects of using foldable containers in various circumstances, with particular emphasis on addressing the issue of container imbalances. ...

This work tackles the challenge of automating the folding process for flat cartons by identifying and suggesting feasible folding sequences for real-world implementation.

This study considers the empty container repositioning problem of shipping companies that use standard and 3-in-1 foldable containers with more advanced designs. A ...

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 ...

The presented foldable container passed the tests for international certifications ISO 1496-1 and CSC required for its application on site. Differently from the 4:1 folding ratio adopted by most ...

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