

Three-phase cost analysis of folding container unit price





Overview

How much does a foldable container cost?

For the sensitivity analysis, the purchasing price of a foldable container is assumed to be twice as much as that of a standard container. Four foldable containers take up as much space as a standard container when folded and packed together. The folding and unfolding costs are the same; they are assumed to be approximately 50USD per handling.

Will foldable containers be less expensive in the future?

Currently, foldable containers with lower production costs have been designed in several studies. Moreover, when foldable containers can be produced on a large scale, their purchasing cost can fall. It is expected that foldable containers will be less expensive in the future. Third, an experiment has been conducted on the transportation cost.

Do foldable containers increase production costs?

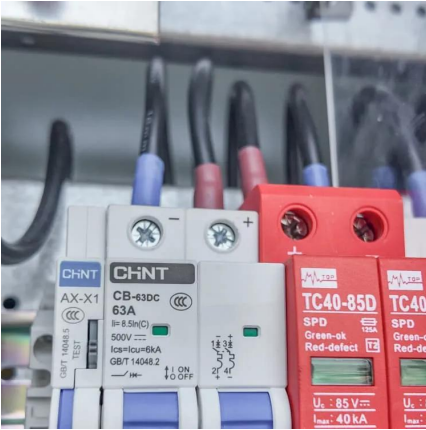
These experiments demonstrate that a decrease in the production cost of foldable containers and an increase in transportation costs play a key role in the use of foldable containers. In our future research, we will investigate the maintenance aspect of foldable containers.

Are foldable containers economically feasible?

Heuristic algorithms are proposed to solve the mathematical models. Numerical experiments are carried out in several scenarios to demonstrate the economic feasibility of foldable containers. The sensitivity analysis shows that the purchasing cost and the transportation cost affect the use of foldable containers.



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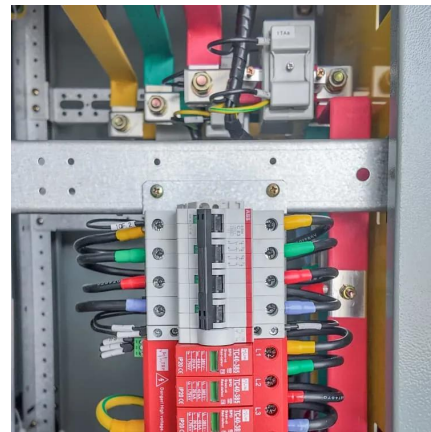


Foldable and standard containers in empty container repositioning

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Comparison of total cost under unit folding and unfolding cost ...

It can be seen from Figure 4 that the advantage of using a foldable container gradually decreases when the unit cost of folding and unfolding increases.



[\(PDF\) Economic benefits of deploying ...](#)

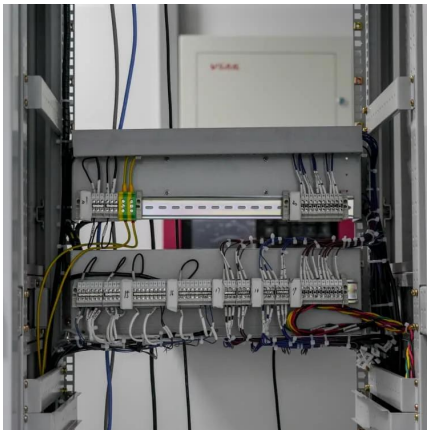
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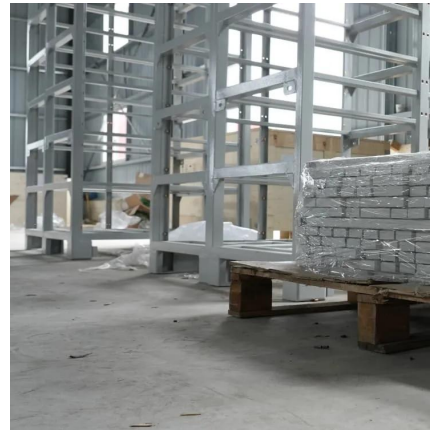
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It can be seen from Figure 4 that the advantage of using a foldable container gradually decreases when the unit cost of folding and unfolding increases.



[An Empty Container Reposition Study with Foldable ...](#)

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