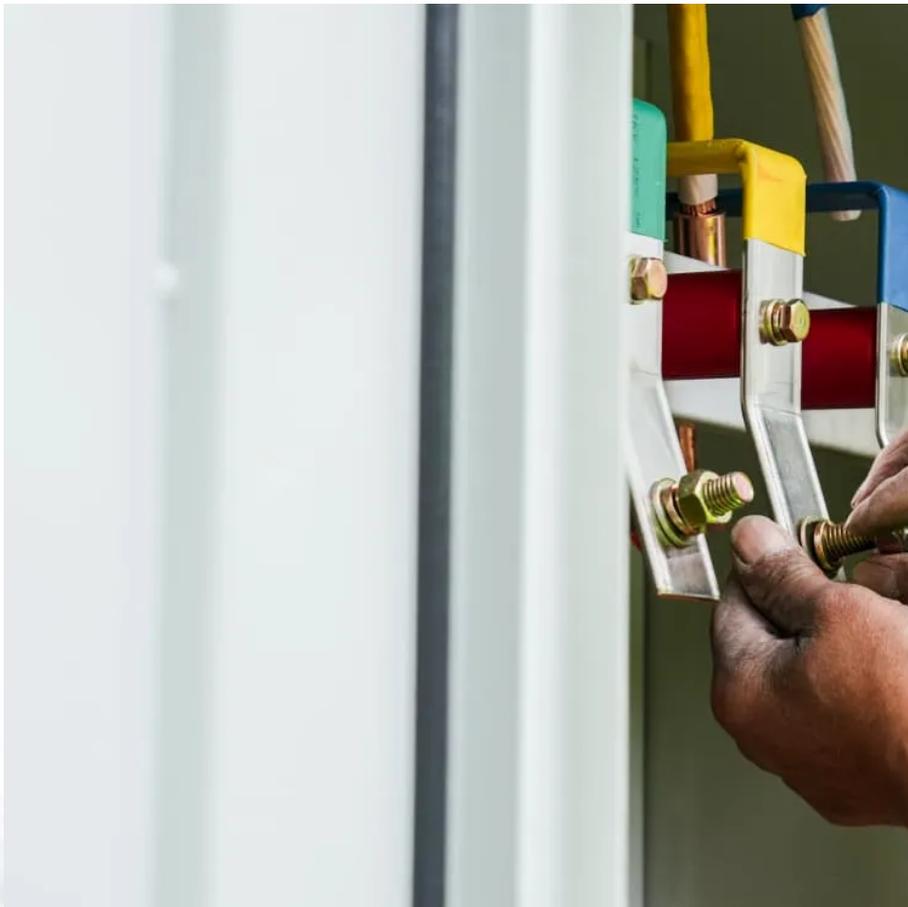


# **High-pressure type mobile energy storage container for ships**





## Overview

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What is a high pressure hydrogen storage container?

This was a new type of high-pressure hydrogen storage container that had the advantages of high mass and volume density, good safety, low-cost parameters, and did not undergo hydrogen embrittlement. It was initially anticipated that this type of container would be combined with fuel cells and applied to various electronic mobile devices.

What is a high pressure storage vessel?

Almost 80% of hydrogenation processes over the world utilize the high-pressure storage vessel in both hydrogen storage and transportation fields . To satisfy the industrial requirement of the hydrogen storage density, the internal pressure should be increased up to 70 MPa .

What materials are used for high-pressure hydrogen storage containers?

This article systematically presents the manufacturing processes and materials used for a variety of high-pressure hydrogen storage containers, including metal cylinders, carbon fiber composite cylinders, and emerging glass material-based hydrogen storage containers.

What is a gaseous hydrogen storage spherical vessel?

Compared with other types of vessels, gaseous hydrogen storage spherical vessels require the least amount of material for a given diameter and provide a uniform stress distribution. Thus, these vessels are well-suited for large-scale hydrogen storage and are commonly used in hydrogen production stations.



## High-pressure type mobile energy storage container for ships



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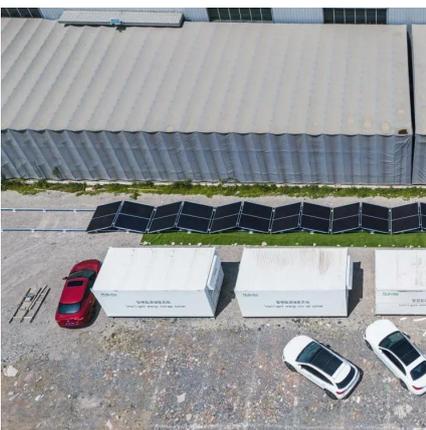
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