

Global Metal Hydride Hydrogen Storage Tanks Market Growth 2026-2032

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Abstracts

The global Metal Hydride Hydrogen Storage Tanks market size is predicted to grow from US\$ 87.06 million in 2025 to US\$ 230 million in 2032; it is expected to grow at a CAGR of 14.7% from 2026 to 2032.

Metal hydride hydrogen storage tanks are specialized vessels that store hydrogen by chemically absorbing it into metal or alloy hydrides rather than keeping it as compressed or liquefied gas. Through a reversible reaction, hydrogen is absorbed at relatively low pressure and released upon controlled heating, offering high volumetric storage density and enhanced safety. These tanks typically use alloys such as LaNi₅-based, titanium-based, or magnesium-based hydrides, combined with heat management systems to regulate absorption and desorption efficiency. Owing to their stable operation, low operating pressure, and reduced leakage risk, metal hydride hydrogen storage tanks are widely applied in hydrogen energy systems, fuel cell power supplies, backup energy storage, and research applications.

In 2025, global metal hydride hydrogen storage tanks production reached approximately 30.97 k units, with an average global market price of around US\$ 2874 per unit. And global metal hydride hydrogen storage tanks production capacity reached approximately 48 k units. The average gross margin in this industry reached 18.13%.

The upstream segment of metal hydride hydrogen storage tanks centers on hydrogen storage alloys, pressure vessels, and thermal management components. Core materials include metal hydride alloys such as LaNi₅-based (AB₅), Ti-Fe (AB), Zr-Ti-Mn (AB₂), and Mg-based systems, along with alloying elements (Ni, Ti, Zr, Mn, Mg). Tank manufacturing also requires stainless steel or aluminum vessels, heat-exchange tubes/fins, valves, and safety devices, as well as powder metallurgy and alloy activation

processes. These inputs determine hydrogen storage capacity, absorption/desorption kinetics, cycle life, and safety. Representative upstream suppliers include Japan Metals & Chemicals (JMC) (hydrogen storage alloys), Toshiba Materials, and Sandvik (high-performance metal materials and tubing).

Downstream applications focus on scenarios requiring safe, low-pressure, and high-volumetric-density hydrogen storage. Typical uses include stationary hydrogen energy storage, backup power systems, hydrogen-powered forklifts and material-handling equipment, fuel-cell auxiliary power units (APUs), hydrogen refueling stations, and portable or off-grid energy systems. Compared with high-pressure cylinders, metal hydride tanks are favored where safety and compactness outweigh weight considerations. Representative downstream users and system integrators include Hydrexia, McPhy Energy, and Toyota Industries, which incorporate metal hydride tanks into hydrogen supply, fuel-cell systems, and industrial energy solutions.

LP Information, Inc. (LPI) ' newest research report, the "Metal Hydride Hydrogen Storage Tanks Industry Forecast" looks at past sales and reviews total world Metal Hydride Hydrogen Storage Tanks sales in 2025, providing a comprehensive analysis by region and market sector of projected Metal Hydride Hydrogen Storage Tanks sales for 2026 through 2032. With Metal Hydride Hydrogen Storage Tanks sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Metal Hydride Hydrogen Storage Tanks industry.

This Insight Report provides a comprehensive analysis of the global Metal Hydride Hydrogen Storage Tanks landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Metal Hydride Hydrogen Storage Tanks portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Metal Hydride Hydrogen Storage Tanks market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Metal Hydride Hydrogen Storage Tanks and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Metal Hydride Hydrogen Storage Tanks.

This report presents a comprehensive overview, market shares, and growth opportunities of Metal Hydride Hydrogen Storage Tanks market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Magnesium-based

Titanium-based

Others

Segmentation by Capacity:

Capacity below 300 L

Capacity above 300 L

Segmentation by Storage Capability:

?1.5 wt%

1.5–3 wt%

?3 wt%

Segmentation by Application:

Automotive

Energy Storage

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

JSW

Wholewin

Prometheus Hydrogen

Methydor

H2Planet

Hydrexia

Houpu Clean Energy

Key Questions Addressed in this Report

What is the 10-year outlook for the global Metal Hydride Hydrogen Storage Tanks market?

What factors are driving Metal Hydride Hydrogen Storage Tanks market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Metal Hydride Hydrogen Storage Tanks market opportunities vary by end market size?

How does Metal Hydride Hydrogen Storage Tanks break out by Type, by Application?

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