

# Global Hydrogen-powered Forklifts Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Hydrogen-powered Forklifts market size is expected to reach \$ 382 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

A hydrogen-powered forklift is a type of forklift that uses a hydrogen fuel cell as its power source. The hydrogen fuel cell generates electrical energy through the chemical reaction between hydrogen and oxygen, which in turn drives the motor of the forklift. During this process, hydrogen undergoes an oxidation reaction at the anode, releasing electrons. These electrons travel through an external circuit to the cathode, where they react with oxygen in a reduction reaction to produce water. This type of forklift typically also comes equipped with a hydrogen storage system, a fuel cell stack, a motor, a controller, a battery management system, as well as working devices (such as forks) and counterweights. It combines the advantages of fuel cell technology, featuring zero or near-zero emissions, high energy conversion efficiency, and rapid hydrogen refueling. The price of this product is approximately US\$30,000 to US\$40,000 per unit.

Upstream, Hydrogen-powered Forklifts sit at the intersection of the forklift supply chain and the hydrogen fuel cell supply chain: hydrogen is produced through electrolysis or reforming, then purified, compressed, or liquefied, stored, transported, or generated on-site and delivered via on-site infrastructure such as tanks, compressors, refueling stations, and safety systems; simultaneously, fuel cell power modules consist of key components including membrane electrode assemblies with platinum group catalysts, bipolar plates, gaskets and seals, air and hydrogen supply hardware, humidification and thermal management, sensors and controllers, and high-pressure hydrogen cylinders and valves; while forklift OEMs or integrators combine the fuel cell modules with the forklift's electric drive system, power electronics, and battery or capacitor buffers, and

complete verification and certification. Downstream users, such as high-utilization users like distribution centers, cold storage facilities, and manufacturing plants, deploy these forklifts. In these locations, operators can refuel in just a few minutes and operate multiple shifts. Continuous hydrogen supply contracts or on-site production, fleet management and safety training, preventative maintenance of trucks and fuel cell systems, and spare parts and service networks all support these forklifts. When forklifts are scrapped, they are either resold or scrapped, while fuel cell stacks and high-pressure storage tanks are processed according to prescribed inspection, refurbishment, and metal and component recycling procedures.

Hydrogen-powered forklifts represent a strategic niche within the broader material handling equipment market, driven primarily by high-utilization warehouse environments that value fast refueling, stable power output, and reduced downtime compared with conventional lead-acid battery systems. Their adoption is strongest in large distribution centers, cold storage facilities, and multi-shift operations where productivity gains can offset higher upfront system and hydrogen infrastructure costs. Policy incentives supporting decarbonization and the development of green hydrogen ecosystems further enhance long-term potential. However, widespread penetration remains constrained by fueling infrastructure availability, hydrogen supply economics, and competition from increasingly efficient lithium-ion battery forklifts. Overall, hydrogen-powered forklifts are positioned as a performance-driven, logistics-focused solution rather than a universal replacement across the entire forklift market.

This report studies the global Hydrogen-powered Forklifts production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Hydrogen-powered Forklifts and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Hydrogen-powered Forklifts that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Hydrogen-powered Forklifts total production and demand, 2021-2032, (Units)  
Global Hydrogen-powered Forklifts total production value, 2021-2032, (USD Million)  
Global Hydrogen-powered Forklifts production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)  
Global Hydrogen-powered Forklifts consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Hydrogen-powered Forklifts domestic production, consumption, key domestic manufacturers and share

Global Hydrogen-powered Forklifts production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Hydrogen-powered Forklifts production by Load, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Hydrogen-powered Forklifts production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Hydrogen-powered Forklifts market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Toyota, Air Products and Chemicals, Raymond, Hyster-Yale Materials Handling, Linde, STILL, Jungheinrich, Hangcha Group, Anhui Heli, Bobcat (Doosan), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Hydrogen-powered Forklifts market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Load, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Hydrogen-powered Forklifts Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Hydrogen-powered Forklifts Market, Segmentation by Load:

1.5?2.5 Tons

2.5?3.5 Tons

3.5?5.0 Tons

Others

#### Global Hydrogen-powered Forklifts Market, Segmentation by Cell Type:

PEMFC Forklift

DMFC Forklift

Others

#### Global Hydrogen-powered Forklifts Market, Segmentation by Type:

Class 1

Class 2

Class 3

Class 4 and 5

## Global Hydrogen-powered Forklifts Market, Segmentation by Application:

Warehouse Logistics

Dock Handling

Manufacturing Factory

## Companies Profiled:

Toyota

Air Products and Chemicals

Raymond

Hyster-Yale Materials Handling

Linde

STILL

Jungheinrich

Hangcha Group

Anhui Heli

Bobcat (Doosan)

## Key Questions Answered:

1. How big is the global Hydrogen-powered Forklifts market?
2. What is the demand of the global Hydrogen-powered Forklifts market?
3. What is the year over year growth of the global Hydrogen-powered Forklifts market?
4. What is the production and production value of the global Hydrogen-powered Forklifts

market?

5. Who are the key producers in the global Hydrogen-powered Forklifts market?

6. What are the growth factors driving the market demand?

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