

# Global Hydrogen Fuel Cell Powered Forklifts Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Hydrogen Fuel Cell 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).

Hydrogen fuel cell powered forklifts are lift trucks that use hydrogen as the onboard fuel to generate electricity for an electric drivetrain and hydraulic lifting, most commonly through a hydrogen fuel cell power module that functions as a battery replacement or as a hybrid with a small buffer battery. Hydrogen stored in a high-pressure cylinder is fed to the fuel cell, which combines it with oxygen from the air to produce electric power, with water and heat as the main byproducts at the point of use, and the truck is refueled at a hydrogen dispenser in minutes rather than being charged for hours. They are typically deployed in high-utilization environments such as distribution centers, manufacturing sites, and cold storage where multi-shift uptime, consistent power output, and eliminating battery-change rooms can materially improve operations, but their economics and adoption depend on hydrogen supply cost, fueling infrastructure, safety procedures, and service support. The price of this product is approximately US\$30,000 to US\$40,000 per unit.

Upstream, hydrogen fuel cell 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.

This report studies the global Hydrogen Fuel Cell Powered Forklifts production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Hydrogen Fuel Cell 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 Fuel Cell Powered Forklifts that contribute to its increasing demand across many markets.

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

Global Hydrogen Fuel Cell Powered Forklifts total production and demand, 2021-2032, (Units)

Global Hydrogen Fuel Cell Powered Forklifts total production value, 2021-2032, (USD Million)

Global Hydrogen Fuel Cell Powered Forklifts production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Hydrogen Fuel Cell Powered Forklifts consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Hydrogen Fuel Cell Powered Forklifts domestic production, consumption, key domestic manufacturers and share

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

Global Hydrogen Fuel Cell Powered Forklifts production by Load Capacity, production, value, CAGR, 2021-2032, (USD Million) & (Units)

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

This report profiles key players in the global Hydrogen Fuel Cell 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, 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 Fuel Cell Powered Forklifts market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Load Capacity, 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 Fuel Cell Powered Forklifts Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Hydrogen Fuel Cell Powered Forklifts Market, Segmentation by Load Capacity:

1.5–2.5 Tons

2.5–3.5 Tons

3.5–5.0 Tons

Others

### Global Hydrogen Fuel Cell Powered Forklifts Market, Segmentation by Cell Type:

PEMFC Forklift

DMFC Forklift

Others

### Global Hydrogen Fuel Cell Powered Forklifts Market, Segmentation by Type:

Class 1

Class 2

Class 3

Class 4 and 5

### Global Hydrogen Fuel Cell 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

### **Key Questions Answered:**

1. How big is the global Hydrogen Fuel Cell Powered Forklifts market?
2. What is the demand of the global Hydrogen Fuel Cell Powered Forklifts market?
3. What is the year over year growth of the global Hydrogen Fuel Cell Powered Forklifts market?
4. What is the production and production value of the global Hydrogen Fuel Cell Powered Forklifts market?
5. Who are the key producers in the global Hydrogen Fuel Cell Powered Forklifts market?
6. What are the growth factors driving the market demand?

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