

Gantry Crane Market Forecasts to 2032 – Global Analysis By Type (Single Girder Gantry Crane, Double Girder Gantry Crane, Semi-Gantry Crane, Portable Gantry Crane, Rail-Mounted Gantry Crane and Rubber-Tyred Gantry Crane), Lifting Capacity, Material, Automation Level, Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Gantry Crane Market is accounted for \$2.64 billion in 2025 and is expected to reach \$4.23 billion by 2032 growing at a CAGR of 7.0% during the forecast period. Gantry cranes are overhead cranes featuring a bridge mounted on two or more legs that travel on wheels or rails. They are commonly utilized to lift and transport heavy materials in industries like shipbuilding, storage facilities, and construction zones. Known for their strength and adaptability, gantry cranes handle large, cumbersome loads efficiently. They can operate manually or via electrical or hydraulic systems. Their sturdy structure guarantees safe, accurate, and productive handling of materials. Due to their versatility, gantry cranes are extensively employed across various sectors, providing reliable solutions for moving and positioning substantial items in diverse industrial settings.

According to the U.S. Occupational Safety and Health Administration (OSHA), gantry cranes are classified under overhead and gantry cranes in 29 CFR 1910.179. OSHA mandates strict safety standards for their use in manufacturing and construction, underscoring their critical role in industrial material handling.

Market Dynamics:

Driver:

Growing industrialization and infrastructure development

Rapid industrial expansion and extensive infrastructure initiatives are major growth drivers for the gantry crane market. Sectors like construction, manufacturing, and shipbuilding increasingly rely on gantry cranes to manage heavy loads efficiently. Urban development and industrial zone expansion elevate the need for reliable material handling solutions. Rising investments in warehouses, ports, and factories further stimulate demand, while governmental emphasis on modernizing infrastructure encourages the adoption of advanced crane technologies. As a result, gantry cranes are becoming indispensable in industries requiring safe, precise, and high-capacity material movement, boosting market growth steadily across diverse commercial and industrial applications.

Restraint:

High initial investment and maintenance costs

A significant market restraint for gantry cranes is their substantial upfront and maintenance expenses. Due to their robust construction, intricate design, and advanced capabilities, these cranes are costlier than conventional material handling systems. Regular upkeep, inspections, and repairs further increase operational costs, posing challenges for small and medium businesses. The requirement for trained personnel to maintain efficient operations adds to the financial burden. In regions with limited budgets, these high costs can discourage investment in gantry cranes, restricting their adoption and slowing market expansion despite the equipment's efficiency and industrial utility.

Opportunity:

Adoption of smart and automated gantry cranes

Increasing use of smart and automated gantry cranes offers vast market potential. Incorporating IoT devices, sensors, and robotic systems facilitates real-time tracking, predictive maintenance, and more efficient operations. Automation reduces mistakes, improves safety, and boosts productivity in sectors including shipping, manufacturing, and logistics. Firms leveraging these advanced technologies can streamline material handling processes and lower costs. Features like AI-assisted controls and remote

operation enable precise execution of complex lifting tasks. This move toward intelligent and automated solutions opens profitable prospects for crane manufacturers and service providers, making the market more technologically advanced and attractive for investors seeking innovative material handling solutions.

Threat:

Intense competition and price pressure

The gantry crane market is threatened by strong competition from both global and regional players. While innovation drives market activity, price-sensitive markets create pressure on profit margins. Aggressive discounting and competitive pricing can trigger price wars, making it challenging for smaller manufacturers to survive. Buyers now evaluate cranes based on features, durability, and after-sales support, requiring companies to allocate more resources to R&D and marketing. In this competitive landscape, sustaining market share while remaining profitable becomes increasingly difficult, particularly as production and operational costs rise. The combination of price pressure and fierce competition limits growth potential for many gantry crane suppliers.

Covid-19 Impact:

The COVID-19 outbreak significantly disrupted the gantry crane market by affecting supply chains, industrial production, and global operations. Lockdowns and movement restrictions caused delays in construction, infrastructure development, and port activities, leading to decreased demand for gantry cranes. Workforce shortages and logistical hurdles further delayed installation, maintenance, and equipment delivery. Economic uncertainty and reduced industrial investments compounded these challenges. Despite the initial slowdown, the market began recovering as restrictions were lifted, with industries increasingly emphasizing automation, safety, and efficient material handling. This period highlighted the critical role of gantry cranes in industrial resilience and long-term operational efficiency, driving renewed interest in advanced crane solutions.

The double girder gantry crane segment is expected to be the largest during the forecast period

The double girder gantry crane segment is expected to account for the largest market share during the forecast period because they offer higher load capacity and greater stability than other crane types. They are extensively used in industries like steel

production, shipbuilding, and large construction projects that require lifting very heavy materials accurately. With longer spans, elevated lifting heights, and robust safety features, double girder cranes are suited for intensive industrial tasks. Their strength, adaptability, and support for heavy-duty hoists and trolleys make them the preferred choice in multiple sectors. These factors collectively contribute to double girder gantry cranes maintaining the largest market share within the global gantry crane industry.

The port & shipping operations segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the port & shipping operations segment is predicted to witness the highest growth rate due to rising global trade and container traffic. Expanding ports, upgraded terminals, and the need for efficient material handling boost demand for high-capacity cranes. Gantry cranes streamline container loading and unloading, enhancing operational efficiency and reducing turnaround times. The surge in e-commerce and global supply chains further encourages investment in advanced and automated crane systems, including rubber-tyred models. These developments make the port and shipping segment the most dynamic and rapidly growing area in the gantry crane market, reflecting its critical role in modern logistics and trade infrastructure.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share due to extensive industrial growth, urban development, and infrastructure expansion in countries such as China, India, and Japan. Rising construction activities, a growing manufacturing base, and expanding logistics and port operations drive the demand for reliable material handling equipment. Investments in shipbuilding, automotive, and steel sectors further boost market potential. Government programs supporting smart infrastructure, industrial parks, and modernized ports encourage advanced crane adoption. A combination of strong industrial capabilities, high production demand, and increasing automation ensures that Asia-Pacific maintains the largest market share globally, solidifying its position as the leading region in the gantry crane industry.

Region with highest CAGR:

Over the forecast period, the Middle East & Africa region is anticipated to exhibit the highest CAGR, driven by expanding infrastructure, industrialization, and investments in ports and logistics networks. Rising construction, energy, and industrial projects

increase the need for effective material handling solutions. Regional initiatives to modernize ports, strengthen trade, and adopt smart logistics systems encourage the use of advanced gantry cranes. The development of new industrial zones and government strategies to enhance manufacturing and trade capabilities further accelerate demand. These factors collectively position the Middle East & Africa as the region with the highest growth rate in the global gantry crane market, reflecting significant growth potential.

Key players in the market

Some of the key players in Gantry Crane Market include JASO Industrial Cranes, Aicrane Machinery Group, Doosan Heavy Industries Vietnam Co., Mi-Jack Products, Inc., Mammoet Holding B.V., TNT Crane & Rigging, Mukand, Pioneer Cranes, K2 Cranes, Konecranes, Balaji Cranes Private Limited, GH Cranes, Xuzhou Heavy Machinery Co. Ltd (XCMG), Zoomlion and Zhenhua Heavy Industries Co., Ltd (ZPMC).

Key Developments:

In July 2025, Mammoet has signed a support agreement for TenneT's 2 GW offshore grid programme to assist Heerema Marine Contractors with the offshore installation of two large topsides. Under the agreement, Mammoet will help to prepare the two topsides for floatover operations by skidding the units from HVT to the newly built Heerema H731 barge, using hydraulic skid shoes.

In June 2025, JASO Industrial Cranes has secured another contract from Tata Steel UK to supply seven cranes for the new decarbonisation project at its Port Talbot plant in South Wales, UK. The project stems from an agreement reached in 2023 between Tata Steel UK and the UK government. The project includes the installation of an electric arc furnace (EAF) and two ladle metallurgy furnaces.

In May 2025, Konecranes Lift Trucks has entered a new distributor agreement with Terberg Tractors Belgium, enhancing its presence in the Belgian material handling equipment market. The agreement, finalized on 16 April, empowers Terberg Tractors Belgium to sell and service Konecranes lift trucks throughout Belgium, utilizing their advanced sales and support center in Gent.

Types Covered:

Single Girder Gantry Crane

Double Girder Gantry Crane

Semi-Gantry Crane

Portable Gantry Crane

Rail-Mounted Gantry Crane

Rubber-Tyred Gantry Crane

Lifting Capacities Covered:

Less than 5 Tons

5-10 Tons

11-25 Tons

26-50 Tons

51-80 Tons

Above 80 Tons

Materials Covered:

Steel

Aluminum

Automation Levels Covered:

Manual

Electric Powered

Applications Covered:

Construction

Manufacturing

Shipyards

Warehousing

Port & Shipping Operations

End Users Covered:

Automotive

Aerospace

Marine

Railways

Energy & Utilities

Defense & Government

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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