

Global Carbon Steel Bearing Balls Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Carbon Steel Bearing Balls market size was valued at US\$ 141 million in 2024 and is forecast to a readjusted size of USD 191 million by 2031 with a CAGR of 4.4% during review period.

Carbon steel bearing balls are spherical rolling elements made from high-carbon steel (such as AISI 52100) or low-carbon steel (such as AISI 1010, AISI 1045, and AISI 1065). These balls are widely used in automotive components, bicycles, casters, conveyor systems, industrial machinery, and low-cost bearing applications due to their high hardness, wear resistance, and affordability.

High-carbon steel balls, such as AISI 52100, offer superior hardness and wear resistance, making them ideal for high-precision bearings. In contrast, low-carbon steel balls provide better ductility and lower manufacturing costs but require surface hardening for durability.

The carbon steel bearing ball market remains a crucial segment of the bearing industry, driven by demand from automotive, industrial, and consumer goods sectors. High-carbon steel balls (AISI 52100) are extensively used in high-load, high-speed applications, particularly in automotive transmissions, wheel hubs, and industrial machinery. Their high wear resistance makes them indispensable in applications where precision and longevity are required.

On the other hand, low-carbon steel balls are preferred in cost-sensitive applications such as casters, furniture rollers, and conveyor systems, where extreme durability is not a priority. The bicycle industry is another key market, with carbon steel balls commonly

used in pedals, hubs, and bottom brackets.

A major challenge for the industry is corrosion resistance, as carbon steel balls are prone to rust. To mitigate this, manufacturers apply surface coatings, oil treatments, or electroplating (such as zinc or chrome plating) to enhance durability. Additionally, there is growing competition from stainless steel and ceramic balls, which offer better performance in corrosive and high-temperature environments.

Looking ahead, the demand for affordable, high-performance bearings in emerging markets will sustain the growth of carbon steel bearing balls, especially in Asia-Pacific regions, where cost efficiency is a priority. However, manufacturers must innovate in surface treatment technologies and automated production to remain competitive in an increasingly demanding market.

This report is a detailed and comprehensive analysis for global Carbon Steel Bearing Balls market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Carbon Steel Bearing Balls market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Carbon Steel Bearing Balls market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Carbon Steel Bearing Balls market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Carbon Steel Bearing Balls market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2020-2025

The Primary Objectives in This Report Are:

Global Carbon Steel Bearing Balls Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031...

To determine the size of the total market opportunity of global and key countries
To assess the growth potential for Carbon Steel Bearing Balls
To forecast future growth in each product and end-use market
To assess competitive factors affecting the marketplace

This report profiles key players in the global Carbon Steel Bearing Balls market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Tsubaki Nakashima, Amatsuji Steel Ball, Preciball, Hartford Technologies, Abbott Ball, Salem Specialty Ball, Jiangsu LiXing Gen steel, Luoyang Mingzhen Bearing Steel Ball, Dongguan Lychon Hardware Co.,Ltd, etc.

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

Market Segmentation

Carbon Steel Bearing Balls market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

High Carbon Steel Ball

Low Carbon Steel Ball

Market segment by Application

Automotive

Energy Equipment

Aerospace

Others

Major players covered

Tsubaki Nakashima

Amatsuji Steel Ball

Preciball

Hartford Technologies

Abbott Ball

Salem Specialty Ball

Jiangsu LiXing Gen steel

Luoyang Mingzhen Bearing Steel Ball

Dongguan Lychon Hardware Co.,Ltd

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Carbon Steel Bearing Balls product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Carbon Steel Bearing Balls, with price,

sales quantity, revenue, and global market share of Carbon Steel Bearing Balls from 2020 to 2025.

Chapter 3, the Carbon Steel Bearing Balls competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Carbon Steel Bearing Balls breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Carbon Steel Bearing Balls market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Carbon Steel Bearing Balls.

Chapter 14 and 15, to describe Carbon Steel Bearing Balls sales channel, distributors, customers, research findings and conclusion.

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