

Global Grinding Ball Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Grinding Ball market size is expected to reach \$ 3451 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

Global grinding ball sales reached 2.7 million tons in 2025, with an average price of \$812 per ton.

Grinding balls are used to grind materials into fine powders. It is used to mix materials such as chemicals, paints, ceramics, and ores. The grinding balls made from different materials (stainless steel and ceramics) may be used for the same application.

The raw materials for grinding balls fall into two main categories: 'metallic' and 'non-metallic.' Metallic grinding balls primarily use scrap steel, high-carbon round steel, or pig iron, with alloying elements such as ferrochrome and ferromanganese added to adjust the composition. After electric furnace smelting, they are cast into high-chromium/medium-chromium/low-chromium cast iron balls, or hot-rolled/forged into steel balls such as 45#, 60Mn, and B2. Non-metallic grinding balls use ceramic powders such as alumina, zirconium oxide, and silicon nitride, formed through isostatic pressing and high-temperature sintering, and are used for grinding high-purity materials.

Cost structure: Scrap steel/pig iron and alloy additives account for 55-60% of the cost of metallic grinding balls; electricity and heat treatment energy consumption account for 15%; roll/mold wear and equipment depreciation account for 10%; labor and manufacturing costs account for 10%; packaging, transportation, and profit account for 5-10%. Based on 2025 market conditions, the raw material cost for high-chromium grinding balls, ceramic balls, can reach over 70% due to the high price of the powder. This report studies the global Grinding Ball production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Grinding Ball 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 Grinding Ball that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Grinding Ball total production and demand, 2021-2032, (Kilotons)

Global Grinding Ball total production value, 2021-2032, (USD Million)

Global Grinding Ball production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Grinding Ball consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Grinding Ball domestic production, consumption, key domestic manufacturers and share

Global Grinding Ball production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Grinding Ball production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Grinding Ball production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Grinding Ball 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 Magotteaux, Scaw Metals Group, TOYO Grinding Ball, Vitkovice Cylinders, Tan Kong, Saint-Gobain, Kings Beads, Longteng Special Steel, Jinan Xinte, Shandong Huamin, 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 Grinding Ball market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) by manufacturer, by Type, 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 Grinding Ball Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Grinding Ball Market, Segmentation by Type:

Cast Balls

Forged Balls

Hot-Rolled Balls

Others

Global Grinding Ball Market, Segmentation by Chemical Composition:

High Chromium Balls: Cr 12?28%

Medium Chromium Balls: Cr 5?10%

Low Chromium Balls: Cr ?5%

Alloy Steel Balls

Global Grinding Ball Market, Segmentation by Dimensions:

?20?40 mm

?50?80 mm

90?150 mm

Global Grinding Ball Market, Segmentation by Application:

Mining Industry

Thermal Power Plant

Cement Industry

Others

Companies Profiled:

Magotteaux

Scaw Metals Group

TOYO Grinding Ball

Vitkovice Cylinders

Tan Kong

Saint-Gobain

Kings Beads

Longteng Special Steel

Jinan Xinte

Shandong Huamin

Dongyuan Steel Ball

Jinan Huafu

JinCHi Heavy Industry

Oriental Casting and Forging

Sheng Ye Grinding Ball

Fengxing Wear-resistant Materials

Key Questions Answered:

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

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