

Global Steel Ball Cold Heading Machine Market Research Report 2026(Status and Outlook)

<https://marketpublishers.com/r/GD225940E4E5EN.html>

Date: March 2026

Pages: 164

Price: US\$ 3,200.00 (Single User License)

ID: GD225940E4E5EN

Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Steel Ball Cold Heading Machine competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. In 2024, the global production of cold heading machines for steel balls reached 1,443 units, with an average selling price of US\$297,300 per unit. To address the problems of high energy consumption in forging, significant material waste in machining, and low production efficiency in traditional steel ball production, cold heading machines for steel balls were developed. Since the large-scale application of cold heading technology in the 1980s, the steel ball manufacturing equipment sector has achieved leapfrog development. Currently, cold heading machines for steel balls have formed a comprehensive range covering different specifications, levels of automation, and drive methods, and are widely used in bearing manufacturing, automotive parts, and construction machinery. They are core equipment capable of achieving "cutting-free" forming of steel balls and increasing material utilization by more than 30%. In terms of global production capacity for cold heading machines for steel balls in 2024, small and medium-sized machinery enterprises typically had an annual production capacity of 45-55 units per line, while leading companies such as Germany's Schmid could achieve an annual production capacity of over 100 units. The industry average capacity utilization rate was approximately 72%. Gross profit margin varies significantly due to differences in precision: ordinary cold heading machines for steel balls have a margin of approximately 20%-28%, while precision bearing steel ball cold heading machines can reach 35%-42%. A typical transaction example: In the second quarter of 2024, CRRC Corporation Limited purchased 20 ZW-80 precision steel ball cold heading machines from Wuxi Zhenhua Heavy Industries Co., Ltd., for a total amount of RMB 36 million. The purchase requirements clearly stated that the machines

should be "suitable for 15-25mm high-speed rail bearing steel balls, with a roundness error $\pm 0.002\text{mm}$ and a single cold heading forming rate $\geq 99.8\%$ ", for the localization of high-speed rail axle box bearing steel ball production. In early 2025, Bosch Group (Germany) purchased 15 S300 fully automatic cold heading machines for steel balls from Schmid, Germany, at a unit price of 3.2 million euros. The requirements were: "capable of processing 5-12mm automotive transmission steel balls, with a production efficiency of 80 balls/minute, and integrated online laser inspection system," for upgrading its global automotive parts supply chain. In the fourth quarter of 2024, XCMG purchased 12 SJ-120 large-scale cold heading machines for steel balls from Ningbo Sijin Precision, totaling 28.8 million yuan. These machines are suitable for 30-50mm hydraulic system steel balls in engineering machinery, requiring "maximum cold heading force of 1200kN and a continuous operating failure rate $\leq 0.5\%/1000$ hours," for use as core components in hydraulic pumps. The upstream of the cold heading machine industry chain for steel balls encompasses core materials (ductile iron supplied by Shandong Huayu and ThyssenKrupp, cemented carbide from Zhuzhou Diamond and Sumitomo, Japan, and high-strength steel from Baosteel and SSAB, Sweden), key components (servo motors from Siemens/Panasonic, PLC control systems from Mitsubishi/Rockwell, cold heading dies from Zhuzhou Cemented Carbide/Daijie, Japan, and feeding mechanisms from HIWIN (Taiwan)/Rexroth, Germany), and technical support (precision grinding equipment from DMG MORI (Germany)/Makino, Japan, and die heat treatment processes from Beijing Institute of Mechanical and Electrical Engineering/Body, Germany). The online inspection system, developed by COTE, utilizes a Keyence/Cognex solution. Downstream applications are concentrated in four main areas: the bearing industry (60% market share, with leading companies like SKF and NSK accounting for 45% of total industry demand, and new energy vehicle bearing demand driving equipment procurement growth by 25%), the automotive industry (25% market share, with new energy vehicle companies like BYD and Tesla experiencing equipment procurement growth exceeding 30%), the construction machinery industry (10% market share, with Sany Heavy Industry and XCMG purchasing 10-20 units annually for equipment upgrades), and the general machinery industry (5% market share, primarily small and medium-sized cold heading machines, with strong demand stability).

Industry Trends and Challenges: The cold heading machine industry for steel balls is developing towards higher precision, intelligence, energy conservation, environmental protection, and multi-functional integration. Processing accuracy has reached G2-G3 level, with roundness error controlled within 0.0008mm . Simultaneously, servo drives and process integration have reduced energy consumption by over 30% and shortened production processes by 40%. In terms of opportunities, the growth of new energy vehicles, wind power installations, and domestic substitution are jointly driving market expansion. The import

share of high-end equipment has decreased from 70% in 2019 to 45% in 2024, with emerging markets such as Southeast Asia experiencing annual growth rates exceeding 20%. However, the industry still faces core challenges, including 80% reliance on imports for high-end molds, domestically produced equipment having a 22% higher roundness error in low-temperature environments compared to leading international products, and homogeneous competition leading to a compression of gross profit margins to below 15%, coupled with a 30% increase in export certification costs due to upgrades to the EU Machinery Safety Directive.

Demand and Opportunity Analysis:

Demand for cold heading machines for steel balls is driven by multiple factors: the global bearing market exceeding \$120 billion has driven an 18% increase in annual procurement volume, while the increased localization rate of bearings in China has further boosted the surge in demand for domestically produced equipment; new energy vehicles use 40% more bearings per vehicle than traditional vehicles, with global demand reaching 320 million sets in 2024, corresponding to the procurement of 120 new machines; wind power bearings are growing at an annual rate of 22%, with procurement reaching 85 units in 2024, a twofold increase compared to 2020. In terms of technology, cold heading achieves a material utilization rate of 95% (saving 25% of raw materials compared to cutting), increasing production efficiency by 4-6 times and saving over 500,000 yuan per unit per year, thus driving the replacement of traditional equipment. In terms of policy, Made in China 2025 provides a 15%-20% purchase subsidy, and the green manufacturing policy offers a 10% tax credit, which is expected to drive a 25% increase in procurement volume in 2024 and create a demand for 90 new units of outdated equipment. Core business opportunities include: import substitution of high-end equipment (global market exceeding \$800 million, with domestic companies accounting for 25% of the market share, and a substitution potential of 3 billion yuan in the next 3-5 years); customized equipment development (irregularly shaped steel ball equipment with a unit price of 1.8-2.5 million yuan and a gross profit margin of over 40%; ultra-large diameter steel ball equipment with a premium of 50%, and a significant market gap); value-added services (annual growth of 22% in the operation and maintenance market, with a gross profit margin of over 45%, and integrated services increasing customer stickiness by 30%); and emerging overseas markets (annual growth of 20% in Southeast Asia and South America's automobile manufacturing, with domestically produced equipment offering high cost-effectiveness and short delivery cycles, and exports reaching 120 units in 2024, a 2.5-fold increase compared to 2020, with the export share expected to rise from 15% to 30%).

The global Steel Ball Cold Heading Machine market size was estimated at USD 429.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 4.80% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Steel Ball Cold Heading Machine market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Steel Ball Cold Heading Machine market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Steel Ball Cold Heading Machine market.

Global Steel Ball Cold Heading Machine Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Sijin Intelligent Molding Equipment
Hatebur Carlo Salvi
Nedschroef
National Machinery
SACMA
ASAHI SUNAC
Schmid Komatsu
Komatsu
SMS group
Wuxi Zhenhua Heavy Industry
Ningbo Sijin Precision
Shandong Weili Heavy Industry
Chunri Machinery
Youxin Machinery
Haixing Machinery
Dongrui Machinery

Market Segmentation (by Type)

Small Diameter (Machining Range ? 5mm)
Medium Diameter (Machining Range 5-25mm)
Large Diameter (Machining Range > 25mm)

Market Segmentation (by Application)

Bearing Industry
Automotive Industry
High-end Equipment
General Machinery
Other

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Steel Ball Cold Heading Machine Market

Overview of the regional outlook of the Steel Ball Cold Heading Machine Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Steel Ball Cold Heading Machine Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream

and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Steel Ball Cold Heading Machine, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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