

Global Steel Ball Cold Heading Machine Market Growth 2026-2032

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Abstracts

The global Steel Ball Cold Heading Machine market size is predicted to grow from US\$ 440 million in 2025 to US\$ 616 million in 2032; it is expected to grow at a CAGR of 5.0% from 2026 to 2032.

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/Daijia, 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%).

LP Information, Inc. (LPI) ' newest research report, the "Steel Ball Cold Heading Machine Industry Forecast" looks at past sales and reviews total world Steel Ball Cold Heading Machine sales in 2025, providing a comprehensive analysis by region and market sector of projected Steel Ball Cold Heading Machine sales for 2026 through 2032. With Steel Ball Cold Heading Machine sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Steel Ball Cold Heading Machine industry.

This Insight Report provides a comprehensive analysis of the global Steel Ball Cold Heading Machine landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Steel Ball Cold Heading Machine portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Steel Ball Cold Heading Machine market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Steel Ball Cold Heading Machine and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Steel Ball Cold Heading Machine.

This report presents a comprehensive overview, market shares, and growth opportunities of Steel Ball Cold Heading Machine market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Small Diameter (Machining Range > 5mm)

Medium Diameter (Machining Range 5-25mm)

Large Diameter (Machining Range > 25mm)

Segmentation by Automation Level:

Manual Adjustment

Semi-Automatic

Fully Automatic

Segmentation by Drive Method:

Hydraulic Drive

Mechanical Drive

Servo Drive

Segmentation by Application:

Bearing Industry

Automotive Industry

High-end Equipment

General Machinery

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global Steel Ball Cold Heading Machine market?

What factors are driving Steel Ball Cold Heading Machine market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Steel Ball Cold Heading Machine market opportunities vary by end market size?

How does Steel Ball Cold Heading Machine break out by Type, by Application?

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