

Global High-Precision Mini Steel Balls Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GEEAD33E1082EN.html>

Date: July 2026

Pages: 98

Price: US\$ 3,480.00 (Single User License)

ID: GEEAD33E1082EN

Abstracts

According to our (Global Info Research) latest study, the global High-Precision Mini Steel Balls market size was valued at US\$ 17.30 million in 2025 and is forecast to a readjusted size of US\$ 29.34 million by 2032 with a CAGR of 7.8% during review period.

High-Precision Mini Steel Balls refer to small-size high-precision steel ball rolling elements used in miniature bearings, precision motors, robot actuators, industrial mother machines, medical devices, and automotive precision components. The typical size range is approximately 0.600mm-3.969mm, with precision grades mainly covering G3 and G5. The product is usually made from high-carbon chromium bearing steel grades such as GCr15, SAE52100, SUJ2, and 100Cr6, and manufactured through cold heading, heat treatment, hard grinding, precision lapping, polishing, cleaning, visual inspection, and high-precision sorting. Key features include high dimensional consistency, low surface roughness, low noise, high-speed performance, and low temperature rise.

Compared with ordinary small steel balls, high-precision mini steel balls have higher technical requirements in diameter consistency, sphericity error control, surface defect control, material cleanliness, heat treatment stability, and batch grouping consistency under miniature dimensions. G3/G5 products are positioned in the high-end segment of steel ball precision grades and are mainly used in precision transmission systems requiring high rotational accuracy, low vibration and noise, low temperature rise, and long service life. This product scope excludes G10 and lower-grade ordinary precision small balls, medium and large steel balls, carbon steel balls, general-purpose stainless steel balls, ceramic balls, rollers, and finished bearings. In 2025, global shipments of

high-precision mini steel balls are estimated at 3500 tons, with a unit price of approximately US\$4,805.55 per ton and a gross profit margin of approximately 38.93%.

High-precision mini steel balls are high-value rolling elements used in precision bearings and miniature transmission systems. Demand is expanding from traditional motors and precision machinery to robotics, industrial mother machines, medical devices, and high-end automotive components. As humanoid robot dexterous hands, micro-actuators, precision motors, and high-end servo systems require lower noise, higher speed, and lower temperature rise, the importance of G3/G5 high-precision mini steel balls continues to increase. Although each ball is small and lightweight, the product requires long processing routes, strict sorting, and difficult yield control, resulting in significantly higher gross margins than ordinary steel balls and general-purpose small balls.

In terms of competition, Japanese, European, and U.S. manufacturers entered the high-end mini steel ball segment earlier and have long served precision bearing, motor, and high-end machinery customers. Chinese manufacturers are gradually entering the G3/G5 high-end mini ball market, supported by bearing steel ball industrial clusters, upgraded precision processing equipment, and domestic qualification by downstream customers. Companies such as Jiangsu Lixing have positioned high-precision mini steel balls for robotics, industrial mother machines, medical devices, and automotive applications, reflecting the upgrade of Chinese steel ball suppliers from general-purpose products to high-precision, miniaturized, and higher-value rolling elements. In the future, robotics and localization of high-end equipment will be the key growth drivers.

This report is a detailed and comprehensive analysis for global High-Precision Mini Steel 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 High-Precision Mini Steel Balls market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global High-Precision Mini Steel Balls market size and forecasts by region and country,

in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global High-Precision Mini Steel Balls market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global High-Precision Mini Steel Balls market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for High-Precision Mini Steel 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 High-Precision Mini Steel 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, Daio Steel Ball, Amatsuji Steel Ball Mfg. Co., Ltd., STR Industries., SHANDONG DONGE STEEL BALL GROUP CO.,LTD., Jiangsu Lixing General Steel Ball Co.,Ltd., Shanghai E-Tech Steel Ball Co.,Ltd., Dong-e Huatao Steelball Co., Ltd., Zhongshan Qianrun Precision Steel Ball Co., Ltd, etc.

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

Market Segmentation

High-Precision Mini Steel Balls market is split by Type and by Application. For the period 2021-2032, 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

G3 Precision Steel Ball

G5 Precision Steel Ball

Market segment by Material

GCr15

GCr15SiMn

Market segment by Diameter

0.600-1.588mm

1.589-2.381mm

2.382-3.969mm

Others

Market segment by Application

Robotics

Industrial Mother Machines

Medical Devices

Automotive Precision Components

Others

Major players covered

Tsubaki Nakashima

Daio Steel Ball

Amatsuji Steel Ball Mfg. Co., Ltd.

STR Industries.

SHANDONG DONGE STEEL BALL GROUP CO.,LTD.

Jiangsu Lixing General Steel Ball Co.,Ltd.

Shanghai E-Tech Steel Ball Co.,Ltd.

Dong-e Huatao Steelball Co., Ltd.

Zhongshan Qianrun Precision Steel Ball 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 High-Precision Mini Steel Balls product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High-Precision Mini Steel Balls, with price, sales quantity, revenue, and global market share of High-Precision Mini Steel Balls from 2021 to 2026.

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

Chapter 4, the High-Precision Mini Steel Balls breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and High-Precision Mini Steel Balls market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 High-Precision Mini Steel Balls.

Chapter 14 and 15, to describe High-Precision Mini Steel Balls sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global High-Precision Mini Steel Balls Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 G3 Precision Steel Ball

1.3.3 G5 Precision Steel Ball

1.4 Market Analysis by Material

1.4.1 Overview: Global High-Precision Mini Steel Balls Consumption Value by Material: 2021 Versus 2025 Versus 2032

1.4.2 GCr15

1.4.3 GCr15SiMn

1.5 Market Analysis by Diameter

1.5.1 Overview: Global High-Precision Mini Steel Balls Consumption Value by Diameter: 2021 Versus 2025 Versus 2032

1.5.2 0.600-1.588mm

1.5.3 1.589-2.381mm

1.5.4 2.382-3.969mm

1.5.5 Others

1.6 Market Analysis by Application

1.6.1 Overview: Global High-Precision Mini Steel Balls Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Robotics

1.6.3 Industrial Mother Machines

1.6.4 Medical Devices

1.6.5 Automotive Precision Components

1.6.6 Others

1.7 Global High-Precision Mini Steel Balls Market Size & Forecast

1.7.1 Global High-Precision Mini Steel Balls Consumption Value (2021 & 2025 & 2032)

1.7.2 Global High-Precision Mini Steel Balls Sales Quantity (2021-2032)

1.7.3 Global High-Precision Mini Steel Balls Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Tsubaki Nakashima

- 2.1.1 Tsubaki Nakashima Details
- 2.1.2 Tsubaki Nakashima Major Business
- 2.1.3 Tsubaki Nakashima High-Precision Mini Steel Balls Product and Services
- 2.1.4 Tsubaki Nakashima High-Precision Mini Steel Balls Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 Tsubaki Nakashima Recent Developments/Updates
- 2.2 Daio Steel Ball
 - 2.2.1 Daio Steel Ball Details
 - 2.2.2 Daio Steel Ball Major Business
 - 2.2.3 Daio Steel Ball High-Precision Mini Steel Balls Product and Services
 - 2.2.4 Daio Steel Ball High-Precision Mini Steel Balls Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.2.5 Daio Steel Ball Recent Developments/Updates
- 2.3 Amatsuji Steel Ball Mfg. Co., Ltd.
 - 2.3.1 Amatsuji Steel Ball Mfg. Co., Ltd. Details
 - 2.3.2 Amatsuji Steel Ball Mfg. Co., Ltd. Major Business
 - 2.3.3 Amatsuji Steel Ball Mfg. Co., Ltd. High-Precision Mini Steel Balls Product and Services
 - 2.3.4 Amatsuji Steel Ball Mfg. Co., Ltd. High-Precision Mini Steel Balls Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 Amatsuji Steel Ball Mfg. Co., Ltd. Recent Developments/Updates
- 2.4 STR Industries.
 - 2.4.1 STR Industries. Details
 - 2.4.2 STR Industries. Major Business
 - 2.4.3 STR Industries. High-Precision Mini Steel Balls Product and Services
 - 2.4.4 STR Industries. High-Precision Mini Steel Balls Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 STR Industries. Recent Developments/Updates
- 2.5 SHANDONG DONGE STEEL BALL GROUP CO.,LTD.
 - 2.5.1 SHANDONG DONGE STEEL BALL GROUP CO.,LTD. Details
 - 2.5.2 SHANDONG DONGE STEEL BALL GROUP CO.,LTD. Major Business
 - 2.5.3 SHANDONG DONGE STEEL BALL GROUP CO.,LTD. High-Precision Mini Steel Balls Product and Services
 - 2.5.4 SHANDONG DONGE STEEL BALL GROUP CO.,LTD. High-Precision Mini Steel Balls Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 SHANDONG DONGE STEEL BALL GROUP CO.,LTD. Recent Developments/Updates
- 2.6 Jiangsu Lixing General Steel Ball Co.,Ltd.

- 2.6.1 Jiangsu Lixing General Steel Ball Co.,Ltd. Details
- 2.6.2 Jiangsu Lixing General Steel Ball Co.,Ltd. Major Business
- 2.6.3 Jiangsu Lixing General Steel Ball Co.,Ltd. High-Precision Mini Steel Balls Product and Services
- 2.6.4 Jiangsu Lixing General Steel Ball Co.,Ltd. High-Precision Mini Steel Balls Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.6.5 Jiangsu Lixing General Steel Ball Co.,Ltd. Recent Developments/Updates
- 2.7 Shanghai E-Tech Steel Ball Co.,Ltd.
- 2.7.1 Shanghai E-Tech Steel Ball Co.,Ltd. Details
- 2.7.2 Shanghai E-Tech Steel Ball Co.,Ltd. Major Business
- 2.7.3 Shanghai E-Tech Steel Ball Co.,Ltd. High-Precision Mini Steel Balls Product and Services
- 2.7.4 Shanghai E-Tech Steel Ball Co.,Ltd. High-Precision Mini Steel Balls Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.7.5 Shanghai E-Tech Steel Ball Co.,Ltd. Recent Developments/Updates
- 2.8 Dong-e Huatao Steelball Co., Ltd.
- 2.8.1 Dong-e Huatao Steelball Co., Ltd. Details
- 2.8.2 Dong-e Huatao Steelball Co., Ltd. Major Business
- 2.8.3 Dong-e Huatao Steelball Co., Ltd. High-Precision Mini Steel Balls Product and Services
- 2.8.4 Dong-e Huatao Steelball Co., Ltd. High-Precision Mini Steel Balls Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.8.5 Dong-e Huatao Steelball Co., Ltd. Recent Developments/Updates
- 2.9 Zhongshan Qianrun Precision Steel Ball Co., Ltd
- 2.9.1 Zhongshan Qianrun Precision Steel Ball Co., Ltd Details
- 2.9.2 Zhongshan Qianrun Precision Steel Ball Co., Ltd Major Business
- 2.9.3 Zhongshan Qianrun Precision Steel Ball Co., Ltd High-Precision Mini Steel Balls Product and Services
- 2.9.4 Zhongshan Qianrun Precision Steel Ball Co., Ltd High-Precision Mini Steel Balls Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.9.5 Zhongshan Qianrun Precision Steel Ball Co., Ltd Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: HIGH-PRECISION MINI STEEL BALLS BY MANUFACTURER

- 3.1 Global High-Precision Mini Steel Balls Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global High-Precision Mini Steel Balls Revenue by Manufacturer (2021-2026)
- 3.3 Global High-Precision Mini Steel Balls Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)

- 3.4.1 Producer Shipments of High-Precision Mini Steel Balls by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- 3.4.2 Top 3 High-Precision Mini Steel Balls Manufacturer Market Share in 2025
- 3.4.3 Top 6 High-Precision Mini Steel Balls Manufacturer Market Share in 2025
- 3.5 High-Precision Mini Steel Balls Market: Overall Company Footprint Analysis
 - 3.5.1 High-Precision Mini Steel Balls Market: Region Footprint
 - 3.5.2 High-Precision Mini Steel Balls Market: Company Product Type Footprint
 - 3.5.3 High-Precision Mini Steel Balls Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global High-Precision Mini Steel Balls Market Size by Region
 - 4.1.1 Global High-Precision Mini Steel Balls Sales Quantity by Region (2021-2032)
 - 4.1.2 Global High-Precision Mini Steel Balls Consumption Value by Region (2021-2032)
 - 4.1.3 Global High-Precision Mini Steel Balls Average Price by Region (2021-2032)
- 4.2 North America High-Precision Mini Steel Balls Consumption Value (2021-2032)
- 4.3 Europe High-Precision Mini Steel Balls Consumption Value (2021-2032)
- 4.4 Asia-Pacific High-Precision Mini Steel Balls Consumption Value (2021-2032)
- 4.5 South America High-Precision Mini Steel Balls Consumption Value (2021-2032)
- 4.6 Middle East & Africa High-Precision Mini Steel Balls Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global High-Precision Mini Steel Balls Sales Quantity by Type (2021-2032)
- 5.2 Global High-Precision Mini Steel Balls Consumption Value by Type (2021-2032)
- 5.3 Global High-Precision Mini Steel Balls Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global High-Precision Mini Steel Balls Sales Quantity by Application (2021-2032)
- 6.2 Global High-Precision Mini Steel Balls Consumption Value by Application (2021-2032)
- 6.3 Global High-Precision Mini Steel Balls Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America High-Precision Mini Steel Balls Sales Quantity by Type (2021-2032)

7.2 North America High-Precision Mini Steel Balls Sales Quantity by Application (2021-2032)

7.3 North America High-Precision Mini Steel Balls Market Size by Country

7.3.1 North America High-Precision Mini Steel Balls Sales Quantity by Country (2021-2032)

7.3.2 North America High-Precision Mini Steel Balls Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe High-Precision Mini Steel Balls Sales Quantity by Type (2021-2032)

8.2 Europe High-Precision Mini Steel Balls Sales Quantity by Application (2021-2032)

8.3 Europe High-Precision Mini Steel Balls Market Size by Country

8.3.1 Europe High-Precision Mini Steel Balls Sales Quantity by Country (2021-2032)

8.3.2 Europe High-Precision Mini Steel Balls Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific High-Precision Mini Steel Balls Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific High-Precision Mini Steel Balls Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific High-Precision Mini Steel Balls Market Size by Region

9.3.1 Asia-Pacific High-Precision Mini Steel Balls Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific High-Precision Mini Steel Balls Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

- 9.3.5 South Korea Market Size and Forecast (2021-2032)
- 9.3.6 India Market Size and Forecast (2021-2032)
- 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
- 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America High-Precision Mini Steel Balls Sales Quantity by Type (2021-2032)
- 10.2 South America High-Precision Mini Steel Balls Sales Quantity by Application (2021-2032)
- 10.3 South America High-Precision Mini Steel Balls Market Size by Country
 - 10.3.1 South America High-Precision Mini Steel Balls Sales Quantity by Country (2021-2032)
 - 10.3.2 South America High-Precision Mini Steel Balls Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa High-Precision Mini Steel Balls Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa High-Precision Mini Steel Balls Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa High-Precision Mini Steel Balls Market Size by Country
 - 11.3.1 Middle East & Africa High-Precision Mini Steel Balls Sales Quantity by Country (2021-2032)
 - 11.3.2 Middle East & Africa High-Precision Mini Steel Balls Consumption Value by Country (2021-2032)
 - 11.3.3 Turkey Market Size and Forecast (2021-2032)
 - 11.3.4 Egypt Market Size and Forecast (2021-2032)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
 - 11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 High-Precision Mini Steel Balls Market Drivers
- 12.2 High-Precision Mini Steel Balls Market Restraints

12.3 High-Precision Mini Steel Balls Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of High-Precision Mini Steel Balls and Key Manufacturers

13.2 Manufacturing Costs Percentage of High-Precision Mini Steel Balls

13.3 High-Precision Mini Steel Balls Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 High-Precision Mini Steel Balls Typical Distributors

14.3 High-Precision Mini Steel Balls Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global High-Precision Mini Steel Balls Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global High-Precision Mini Steel Balls Consumption Value by Material, (USD Million), 2021 & 2025 & 2032

Table 3. Global High-Precision Mini Steel Balls Consumption Value by Diameter, (USD Million), 2021 & 2025 & 2032

Table 4. Global High-Precision Mini Steel Balls Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Tsubaki Nakashima Basic Information, Manufacturing Base and Competitors

Table 6. Tsubaki Nakashima Major Business

Table 7. Tsubaki Nakashima High-Precision Mini Steel Balls Product and Services

Table 8. Tsubaki Nakashima High-Precision Mini Steel Balls Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Tsubaki Nakashima Recent Developments/Updates

Table 10. Daio Steel Ball Basic Information, Manufacturing Base and Competitors

Table 11. Daio Steel Ball Major Business

Table 12. Daio Steel Ball High-Precision Mini Steel Balls Product and Services

Table 13. Daio Steel Ball High-Precision Mini Steel Balls Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Daio Steel Ball Recent Developments/Updates

Table 15. Amatsuji Steel Ball Mfg. Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 16. Amatsuji Steel Ball Mfg. Co., Ltd. Major Business

Table 17. Amatsuji Steel Ball Mfg. Co., Ltd. High-Precision Mini Steel Balls Product and Services

Table 18. Amatsuji Steel Ball Mfg. Co., Ltd. High-Precision Mini Steel Balls Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Amatsuji Steel Ball Mfg. Co., Ltd. Recent Developments/Updates

Table 20. STR Industries. Basic Information, Manufacturing Base and Competitors

Table 21. STR Industries. Major Business

Table 22. STR Industries. High-Precision Mini Steel Balls Product and Services

Table 23. STR Industries. High-Precision Mini Steel Balls Sales Quantity (Tons),

Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. STR Industries. Recent Developments/Updates

Table 25. SHANDONG DONGE STEEL BALL GROUP CO.,LTD. Basic Information, Manufacturing Base and Competitors

Table 26. SHANDONG DONGE STEEL BALL GROUP CO.,LTD. Major Business

Table 27. SHANDONG DONGE STEEL BALL GROUP CO.,LTD. High-Precision Mini Steel Balls Product and Services

Table 28. SHANDONG DONGE STEEL BALL GROUP CO.,LTD. High-Precision Mini Steel Balls Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. SHANDONG DONGE STEEL BALL GROUP CO.,LTD. Recent Developments/Updates

Table 30. Jiangsu Lixing General Steel Ball Co.,Ltd. Basic Information, Manufacturing Base and Competitors

Table 31. Jiangsu Lixing General Steel Ball Co.,Ltd. Major Business

Table 32. Jiangsu Lixing General Steel Ball Co.,Ltd. High-Precision Mini Steel Balls Product and Services

Table 33. Jiangsu Lixing General Steel Ball Co.,Ltd. High-Precision Mini Steel Balls Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Jiangsu Lixing General Steel Ball Co.,Ltd. Recent Developments/Updates

Table 35. Shanghai E-Tech Steel Ball Co.,Ltd. Basic Information, Manufacturing Base and Competitors

Table 36. Shanghai E-Tech Steel Ball Co.,Ltd. Major Business

Table 37. Shanghai E-Tech Steel Ball Co.,Ltd. High-Precision Mini Steel Balls Product and Services

Table 38. Shanghai E-Tech Steel Ball Co.,Ltd. High-Precision Mini Steel Balls Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Shanghai E-Tech Steel Ball Co.,Ltd. Recent Developments/Updates

Table 40. Dong-e Huatao Steelball Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 41. Dong-e Huatao Steelball Co., Ltd. Major Business

Table 42. Dong-e Huatao Steelball Co., Ltd. High-Precision Mini Steel Balls Product and Services

Table 43. Dong-e Huatao Steelball Co., Ltd. High-Precision Mini Steel Balls Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Dong-e Huatao Steelball Co., Ltd. Recent Developments/Updates
Table 45. Zhongshan Qianrun Precision Steel Ball Co., Ltd Basic Information, Manufacturing Base and Competitors
Table 46. Zhongshan Qianrun Precision Steel Ball Co., Ltd Major Business
Table 47. Zhongshan Qianrun Precision Steel Ball Co., Ltd High-Precision Mini Steel Balls Product and Services
Table 48. Zhongshan Qianrun Precision Steel Ball Co., Ltd High-Precision Mini Steel Balls Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 49. Zhongshan Qianrun Precision Steel Ball Co., Ltd Recent Developments/Updates
Table 50. Global High-Precision Mini Steel Balls Sales Quantity by Manufacturer (2021-2026) & (Tons)
Table 51. Global High-Precision Mini Steel Balls Revenue by Manufacturer (2021-2026) & (USD Million)
Table 52. Global High-Precision Mini Steel Balls Average Price by Manufacturer (2021-2026) & (US\$/Ton)
Table 53. Market Position of Manufacturers in High-Precision Mini Steel Balls, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
Table 54. Head Office and High-Precision Mini Steel Balls Production Site of Key Manufacturer
Table 55. High-Precision Mini Steel Balls Market: Company Product Type Footprint
Table 56. High-Precision Mini Steel Balls Market: Company Product Application Footprint
Table 57. High-Precision Mini Steel Balls New Market Entrants and Barriers to Market Entry
Table 58. High-Precision Mini Steel Balls Mergers, Acquisition, Agreements, and Collaborations
Table 59. Global High-Precision Mini Steel Balls Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
Table 60. Global High-Precision Mini Steel Balls Sales Quantity by Region (2021-2026) & (Tons)
Table 61. Global High-Precision Mini Steel Balls Sales Quantity by Region (2027-2032) & (Tons)
Table 62. Global High-Precision Mini Steel Balls Consumption Value by Region (2021-2026) & (USD Million)
Table 63. Global High-Precision Mini Steel Balls Consumption Value by Region (2027-2032) & (USD Million)
Table 64. Global High-Precision Mini Steel Balls Average Price by Region (2021-2026)

& (US\$/Ton)

Table 65. Global High-Precision Mini Steel Balls Average Price by Region (2027-2032)

& (US\$/Ton)

Table 66. Global High-Precision Mini Steel Balls Sales Quantity by Type (2021-2026) & (Tons)

Table 67. Global High-Precision Mini Steel Balls Sales Quantity by Type (2027-2032) & (Tons)

Table 68. Global High-Precision Mini Steel Balls Consumption Value by Type (2021-2026) & (USD Million)

Table 69. Global High-Precision Mini Steel Balls Consumption Value by Type (2027-2032) & (USD Million)

Table 70. Global High-Precision Mini Steel Balls Average Price by Type (2021-2026) & (US\$/Ton)

Table 71. Global High-Precision Mini Steel Balls Average Price by Type (2027-2032) & (US\$/Ton)

Table 72. Global High-Precision Mini Steel Balls Sales Quantity by Application (2021-2026) & (Tons)

Table 73. Global High-Precision Mini Steel Balls Sales Quantity by Application (2027-2032) & (Tons)

Table 74. Global High-Precision Mini Steel Balls Consumption Value by Application (2021-2026) & (USD Million)

Table 75. Global High-Precision Mini Steel Balls Consumption Value by Application (2027-2032) & (USD Million)

Table 76. Global High-Precision Mini Steel Balls Average Price by Application (2021-2026) & (US\$/Ton)

Table 77. Global High-Precision Mini Steel Balls Average Price by Application (2027-2032) & (US\$/Ton)

Table 78. North America High-Precision Mini Steel Balls Sales Quantity by Type (2021-2026) & (Tons)

Table 79. North America High-Precision Mini Steel Balls Sales Quantity by Type (2027-2032) & (Tons)

Table 80. North America High-Precision Mini Steel Balls Sales Quantity by Application (2021-2026) & (Tons)

Table 81. North America High-Precision Mini Steel Balls Sales Quantity by Application (2027-2032) & (Tons)

Table 82. North America High-Precision Mini Steel Balls Sales Quantity by Country (2021-2026) & (Tons)

Table 83. North America High-Precision Mini Steel Balls Sales Quantity by Country (2027-2032) & (Tons)

Table 84. North America High-Precision Mini Steel Balls Consumption Value by Country (2021-2026) & (USD Million)

Table 85. North America High-Precision Mini Steel Balls Consumption Value by Country (2027-2032) & (USD Million)

Table 86. Europe High-Precision Mini Steel Balls Sales Quantity by Type (2021-2026) & (Tons)

Table 87. Europe High-Precision Mini Steel Balls Sales Quantity by Type (2027-2032) & (Tons)

Table 88. Europe High-Precision Mini Steel Balls Sales Quantity by Application (2021-2026) & (Tons)

Table 89. Europe High-Precision Mini Steel Balls Sales Quantity by Application (2027-2032) & (Tons)

Table 90. Europe High-Precision Mini Steel Balls Sales Quantity by Country (2021-2026) & (Tons)

Table 91. Europe High-Precision Mini Steel Balls Sales Quantity by Country (2027-2032) & (Tons)

Table 92. Europe High-Precision Mini Steel Balls Consumption Value by Country (2021-2026) & (USD Million)

Table 93. Europe High-Precision Mini Steel Balls Consumption Value by Country (2027-2032) & (USD Million)

Table 94. Asia-Pacific High-Precision Mini Steel Balls Sales Quantity by Type (2021-2026) & (Tons)

Table 95. Asia-Pacific High-Precision Mini Steel Balls Sales Quantity by Type (2027-2032) & (Tons)

Table 96. Asia-Pacific High-Precision Mini Steel Balls Sales Quantity by Application (2021-2026) & (Tons)

Table 97. Asia-Pacific High-Precision Mini Steel Balls Sales Quantity by Application (2027-2032) & (Tons)

Table 98. Asia-Pacific High-Precision Mini Steel Balls Sales Quantity by Region (2021-2026) & (Tons)

Table 99. Asia-Pacific High-Precision Mini Steel Balls Sales Quantity by Region (2027-2032) & (Tons)

Table 100. Asia-Pacific High-Precision Mini Steel Balls Consumption Value by Region (2021-2026) & (USD Million)

Table 101. Asia-Pacific High-Precision Mini Steel Balls Consumption Value by Region (2027-2032) & (USD Million)

Table 102. South America High-Precision Mini Steel Balls Sales Quantity by Type (2021-2026) & (Tons)

Table 103. South America High-Precision Mini Steel Balls Sales Quantity by Type

(2027-2032) & (Tons)

Table 104. South America High-Precision Mini Steel Balls Sales Quantity by Application (2021-2026) & (Tons)

Table 105. South America High-Precision Mini Steel Balls Sales Quantity by Application (2027-2032) & (Tons)

Table 106. South America High-Precision Mini Steel Balls Sales Quantity by Country (2021-2026) & (Tons)

Table 107. South America High-Precision Mini Steel Balls Sales Quantity by Country (2027-2032) & (Tons)

Table 108. South America High-Precision Mini Steel Balls Consumption Value by Country (2021-2026) & (USD Million)

Table 109. South America High-Precision Mini Steel Balls Consumption Value by Country (2027-2032) & (USD Million)

Table 110. Middle East & Africa High-Precision Mini Steel Balls Sales Quantity by Type (2021-2026) & (Tons)

Table 111. Middle East & Africa High-Precision Mini Steel Balls Sales Quantity by Type (2027-2032) & (Tons)

Table 112. Middle East & Africa High-Precision Mini Steel Balls Sales Quantity by Application (2021-2026) & (Tons)

Table 113. Middle East & Africa High-Precision Mini Steel Balls Sales Quantity by Application (2027-2032) & (Tons)

Table 114. Middle East & Africa High-Precision Mini Steel Balls Sales Quantity by Country (2021-2026) & (Tons)

Table 115. Middle East & Africa High-Precision Mini Steel Balls Sales Quantity by Country (2027-2032) & (Tons)

Table 116. Middle East & Africa High-Precision Mini Steel Balls Consumption Value by Country (2021-2026) & (USD Million)

Table 117. Middle East & Africa High-Precision Mini Steel Balls Consumption Value by Country (2027-2032) & (USD Million)

Table 118. High-Precision Mini Steel Balls Raw Material

Table 119. Key Manufacturers of High-Precision Mini Steel Balls Raw Materials

Table 120. High-Precision Mini Steel Balls Typical Distributors

Table 121. High-Precision Mini Steel Balls Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. High-Precision Mini Steel Balls Picture

Figure 2. Global High-Precision Mini Steel Balls Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global High-Precision Mini Steel Balls Revenue Market Share by Type in 2025

Figure 4. G3 Precision Steel Ball Examples

Figure 5. G5 Precision Steel Ball Examples

Figure 6. Global High-Precision Mini Steel Balls Revenue by Material, (USD Million), 2021 & 2025 & 2032

Figure 7. Global High-Precision Mini Steel Balls Revenue Market Share by Material in 2025

Figure 8. GCr15 Examples

Figure 9. GCr15SiMn Examples

Figure 10. Global High-Precision Mini Steel Balls Revenue by Diameter, (USD Million), 2021 & 2025 & 2032

Figure 11. Global High-Precision Mini Steel Balls Revenue Market Share by Diameter in 2025

Figure 12. 0.600-1.588mm Examples

Figure 13. 1.589-2.381mm Examples

Figure 14. 2.382-3.969mm Examples

Figure 15. Others Examples

Figure 16. Global High-Precision Mini Steel Balls Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 17. Global High-Precision Mini Steel Balls Revenue Market Share by Application in 2025

Figure 18. Robotics Examples

Figure 19. Industrial Mother Machines Examples

Figure 20. Medical Devices Examples

Figure 21. Automotive Precision Components Examples

Figure 22. Others Examples

Figure 23. Global High-Precision Mini Steel Balls Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 24. Global High-Precision Mini Steel Balls Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 25. Global High-Precision Mini Steel Balls Sales Quantity (2021-2032) & (Tons)

Figure 26. Global High-Precision Mini Steel Balls Price (2021-2032) & (US\$/Ton)

Figure 27. Global High-Precision Mini Steel Balls Sales Quantity Market Share by Manufacturer in 2025

Figure 28. Global High-Precision Mini Steel Balls Revenue Market Share by Manufacturer in 2025

Figure 29. Producer Shipments of High-Precision Mini Steel Balls by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 30. Top 3 High-Precision Mini Steel Balls Manufacturer (Revenue) Market Share in 2025

Figure 31. Top 6 High-Precision Mini Steel Balls Manufacturer (Revenue) Market Share in 2025

Figure 32. Global High-Precision Mini Steel Balls Sales Quantity Market Share by Region (2021-2032)

Figure 33. Global High-Precision Mini Steel Balls Consumption Value Market Share by Region (2021-2032)

Figure 34. North America High-Precision Mini Steel Balls Consumption Value (2021-2032) & (USD Million)

Figure 35. Europe High-Precision Mini Steel Balls Consumption Value (2021-2032) & (USD Million)

Figure 36. Asia-Pacific High-Precision Mini Steel Balls Consumption Value (2021-2032) & (USD Million)

Figure 37. South America High-Precision Mini Steel Balls Consumption Value (2021-2032) & (USD Million)

Figure 38. Middle East & Africa High-Precision Mini Steel Balls Consumption Value (2021-2032) & (USD Million)

Figure 39. Global High-Precision Mini Steel Balls Sales Quantity Market Share by Type (2021-2032)

Figure 40. Global High-Precision Mini Steel Balls Consumption Value Market Share by Type (2021-2032)

Figure 41. Global High-Precision Mini Steel Balls Average Price by Type (2021-2032) & (US\$/Ton)

Figure 42. Global High-Precision Mini Steel Balls Sales Quantity Market Share by Application (2021-2032)

Figure 43. Global High-Precision Mini Steel Balls Revenue Market Share by Application (2021-2032)

Figure 44. Global High-Precision Mini Steel Balls Average Price by Application (2021-2032) & (US\$/Ton)

Figure 45. North America High-Precision Mini Steel Balls Sales Quantity Market Share by Type (2021-2032)

Figure 46. North America High-Precision Mini Steel Balls Sales Quantity Market Share

by Application (2021-2032)

Figure 47. North America High-Precision Mini Steel Balls Sales Quantity Market Share by Country (2021-2032)

Figure 48. North America High-Precision Mini Steel Balls Consumption Value Market Share by Country (2021-2032)

Figure 49. United States High-Precision Mini Steel Balls Consumption Value (2021-2032) & (USD Million)

Figure 50. Canada High-Precision Mini Steel Balls Consumption Value (2021-2032) & (USD Million)

Figure 51. Mexico High-Precision Mini Steel Balls Consumption Value (2021-2032) & (USD Million)

Figure 52. Europe High-Precision Mini Steel Balls Sales Quantity Market Share by Type (2021-2032)

Figure 53. Europe High-Precision Mini Steel Balls Sales Quantity Market Share by Application (2021-2032)

Figure 54. Europe High-Precision Mini Steel Balls Sales Quantity Market Share by Country (2021-2032)

Figure 55. Europe High-Precision Mini Steel Balls Consumption Value Market Share by Country (2021-2032)

Figure 56. Germany High-Precision Mini Steel Balls Consumption Value (2021-2032) & (USD Million)

Figure 57. France High-Precision Mini Steel Balls Consumption Value (2021-2032) & (USD Million)

Figure 58. United Kingdom High-Precision Mini Steel Balls Consumption Value (2021-2032) & (USD Million)

Figure 59. Russia High-Precision Mini Steel Balls Consumption Value (2021-2032) & (USD Million)

Figure 60. Italy High-Precision Mini Steel Balls Consumption Value (2021-2032) & (USD Million)

Figure 61. Asia-Pacific High-Precision Mini Steel Balls Sales Quantity Market Share by Type (2021-2032)

Figure 62. Asia-Pacific High-Precision Mini Steel Balls Sales Quantity Market Share by Application (2021-2032)

Figure 63. Asia-Pacific High-Precision Mini Steel Balls Sales Quantity Market Share by Region (2021-2032)

Figure 64. Asia-Pacific High-Precision Mini Steel Balls Consumption Value Market Share by Region (2021-2032)

Figure 65. China High-Precision Mini Steel Balls Consumption Value (2021-2032) & (USD Million)

Figure 66. Japan High-Precision Mini Steel Balls Consumption Value (2021-2032) & (USD Million)

Figure 67. South Korea High-Precision Mini Steel Balls Consumption Value (2021-2032) & (USD Million)

Figure 68. India High-Precision Mini Steel Balls Consumption Value (2021-2032) & (USD Million)

Figure 69. Southeast Asia High-Precision Mini Steel Balls Consumption Value (2021-2032) & (USD Million)

Figure 70. Australia High-Precision Mini Steel Balls Consumption Value (2021-2032) & (USD Million)

Figure 71. South America High-Precision Mini Steel Balls Sales Quantity Market Share by Type (2021-2032)

Figure 72. South America High-Precision Mini Steel Balls Sales Quantity Market Share by Application (2021-2032)

Figure 73. South America High-Precision Mini Steel Balls Sales Quantity Market Share by Country (2021-2032)

Figure 74. South America High-Precision Mini Steel Balls Consumption Value Market Share by Country (2021-2032)

Figure 75. Brazil High-Precision Mini Steel Balls Consumption Value (2021-2032) & (USD Million)

Figure 76. Argentina High-Precision Mini Steel Balls Consumption Value (2021-2032) & (USD Million)

Figure 77. Middle East & Africa High-Precision Mini Steel Balls Sales Quantity Market Share by Type (2021-2032)

Figure 78. Middle East & Africa High-Precision Mini Steel Balls Sales Quantity Market Share by Application (2021-2032)

Figure 79. Middle East & Africa High-Precision Mini Steel Balls Sales Quantity Market Share by Country (2021-2032)

Figure 80. Middle East & Africa High-Precision Mini Steel Balls Consumption Value Market Share by Country (2021-2032)

Figure 81. Turkey High-Precision Mini Steel Balls Consumption Value (2021-2032) & (USD Million)

Figure 82. Egypt High-Precision Mini Steel Balls Consumption Value (2021-2032) & (USD Million)

Figure 83. Saudi Arabia High-Precision Mini Steel Balls Consumption Value (2021-2032) & (USD Million)

Figure 84. South Africa High-Precision Mini Steel Balls Consumption Value (2021-2032) & (USD Million)

Figure 85. High-Precision Mini Steel Balls Market Drivers

Figure 86. High-Precision Mini Steel Balls Market Restraints

Figure 87. High-Precision Mini Steel Balls Market Trends

Figure 88. Porters Five Forces Analysis

Figure 89. Manufacturing Cost Structure Analysis of High-Precision Mini Steel Balls in 2025

Figure 90. Manufacturing Process Analysis of High-Precision Mini Steel Balls

Figure 91. High-Precision Mini Steel Balls Industrial Chain

Figure 92. Sales Channel: Direct to End-User vs Distributors

Figure 93. Direct Channel Pros & Cons

Figure 94. Indirect Channel Pros & Cons

Figure 95. Methodology

Figure 96. Research Process and Data Source

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