

Global G3/G5 High-Precision Rolling Elements Market Growth 2026-2032

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Abstracts

The global G3/G5 High-Precision Rolling Elements market size is predicted to grow from US\$ 25.96 million in 2025 to US\$ 45.23 million in 2032; it is expected to grow at a CAGR of 8.3% from 2026 to 2032.

G3/G5 High-Precision Rolling Elements refer to high-end ball-type rolling elements with precision grades of G3 or G5, mainly including high-precision mini steel balls and high-precision silicon nitride ceramic balls. These products are typically used in miniature bearings, high-speed precision bearings, precision motor bearings, robot actuators, industrial mother machines, medical devices, new energy vehicle electric drive systems, and high-end automation equipment. Steel balls are usually made from high-carbon chromium bearing steel grades such as GCr15, SAE52100, SUJ2, and 100Cr6, while ceramic balls are usually made from silicon nitride, or Si₃N₄, offering advantages in lightweight performance, wear resistance, low thermal expansion, high-temperature resistance, electrical insulation, and high-speed operation.

In this report, G3/G5 High-Precision Rolling Elements refer only to ball-type rolling elements. Cylindrical rollers, tapered rollers, needle rollers, crossed rollers, bearing rings, cages, seals, lubricants, and finished bearings are excluded. Compared with ordinary G10 small steel balls and general-purpose steel balls, G3/G5 high-precision rolling elements require much higher consistency in ball diameter, sphericity error, surface roughness, material cleanliness, lapping and polishing precision, surface defect inspection, and batch grouping. They are core components affecting low noise, high speed, low temperature rise, and long service life in high-end bearings. In 2025, global shipments of G3/G5 High-Precision Rolling Elements reached 3900 tons, with a unit price of approximately US\$6,805.55 per ton and a gross profit margin of approximately 40%.

G3/G5 High-Precision Rolling Elements are positioned at the high-end segment of the rolling element value chain. Their value is no longer mainly determined by bearing steel raw material costs, but by precision machining capability, ultra-precision lapping, surface defect control, precision grouping, and customer qualification barriers. As robotics, industrial mother machines, precision motors, medical devices, and new energy vehicle electric drive systems require lower noise, higher speed, lower temperature rise, and longer service life, demand for G3/G5 steel balls and silicon nitride ceramic balls is expanding from traditional precision bearing markets to robotics and high-end equipment.

In terms of product structure, high-precision mini steel balls remain the main shipment category due to mature mass production and cost advantages. Silicon nitride ceramic balls represent a material upgrade direction and are mainly used in high-speed, electrically insulating, low-temperature-rise, lightweight, and long-life applications. Although ceramic balls account for a smaller share of shipments, their higher unit price and gross margin lift the overall average selling price and profitability of the market. In the future, demand from humanoid robot joint modules, precision motors, new energy vehicle high-speed electric drive bearings, and high-end machine tool spindles will support faster growth for G3/G5 high-precision rolling elements than for ordinary steel balls.

The core of industry competition lies in stable mass production of high-grade precision products. Japanese, European, and U.S. suppliers have long held qualification advantages among high-end customers in the G3/G5 rolling element segment. Chinese manufacturers are gradually entering the high-end steel ball and ceramic ball markets through bearing steel ball industrial clusters, upgraded precision processing equipment, and domestic substitution demand from downstream customers. For domestic suppliers, the ability to stably supply G3/G5 products, improve yield in miniature sizes, and strengthen silicon nitride ceramic ball processing and inspection capabilities will be key to future market share gains.

LP Information, Inc. (LPI) ' newest research report, the "G3/G5 High-Precision Rolling Elements Industry Forecast" looks at past sales and reviews total world G3/G5 High-Precision Rolling Elements sales in 2025, providing a comprehensive analysis by region and market sector of projected G3/G5 High-Precision Rolling Elements sales for 2026 through 2032. With G3/G5 High-Precision Rolling Elements sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world G3/G5 High-Precision Rolling Elements industry.

This Insight Report provides a comprehensive analysis of the global G3/G5 High-Precision Rolling Elements 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 G3/G5 High-Precision Rolling Elements portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global G3/G5 High-Precision Rolling Elements market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for G3/G5 High-Precision Rolling Elements 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 G3/G5 High-Precision Rolling Elements.

This report presents a comprehensive overview, market shares, and growth opportunities of G3/G5 High-Precision Rolling Elements market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

G3 Precision Steel Ball

G5 Precision Steel Ball

Segmentation by Material:

Steel Ball

Ceramic Ball

Segmentation by Diameter:

0.600-1.588mm

1.589-2.381mm

2.382-3.969mm

Others

Segmentation by Application:

Motors

Robotics

Industrial Mother Machines

Medical Devices

New Energy Vehicle Electric Drive Systems

Others

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.

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global G3/G5 High-Precision Rolling Elements market?

What factors are driving G3/G5 High-Precision Rolling Elements market growth, globally and by region?

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

How do G3/G5 High-Precision Rolling Elements market opportunities vary by end market size?

How does G3/G5 High-Precision Rolling Elements break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global G3/G5 High-Precision Rolling Elements Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for G3/G5 High-Precision Rolling Elements by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for G3/G5 High-Precision Rolling Elements by Country/Region, 2021, 2025 & 2032

2.2 G3/G5 High-Precision Rolling Elements Segment by Type

- 2.2.1 G3 Precision Steel Ball
- 2.2.2 G5 Precision Steel Ball
- 2.2.3 G3/G5 High-Precision Rolling Elements Sales by Type
 - 2.2.3.1 Global G3/G5 High-Precision Rolling Elements Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global G3/G5 High-Precision Rolling Elements Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global G3/G5 High-Precision Rolling Elements Sale Price by Type (2021-2026)

2.3 G3/G5 High-Precision Rolling Elements Segment by Material

- 2.3.1 Steel Ball
- 2.3.2 Ceramic Ball
- 2.3.3 G3/G5 High-Precision Rolling Elements Sales by Material
 - 2.3.3.1 Global G3/G5 High-Precision Rolling Elements Sales Market Share by Material (2021-2026)
 - 2.3.3.2 Global G3/G5 High-Precision Rolling Elements Revenue and Market Share by Material (2021-2026)

2.3.3.3 Global G3/G5 High-Precision Rolling Elements Sale Price by Material
(2021-2026)

2.4 G3/G5 High-Precision Rolling Elements Segment by Diameter

2.4.1 0.600-1.588mm

2.4.2 1.589-2.381mm

2.4.3 2.382-3.969mm

2.4.4 Others

2.4.5 G3/G5 High-Precision Rolling Elements Sales by Diameter

2.4.5.1 Global G3/G5 High-Precision Rolling Elements Sales Market Share by
Diameter (2021-2026)

2.4.5.2 Global G3/G5 High-Precision Rolling Elements Revenue and Market Share by
Diameter (2021-2026)

2.4.5.3 Global G3/G5 High-Precision Rolling Elements Sale Price by Diameter
(2021-2026)

2.5 G3/G5 High-Precision Rolling Elements Segment by Application

2.5.1 Motors

2.5.2 Robotics

2.5.3 Industrial Mother Machines

2.5.4 Medical Devices

2.5.5 New Energy Vehicle Electric Drive Systems

2.5.6 Others

2.5.7 G3/G5 High-Precision Rolling Elements Sales by Application

2.5.7.1 Global G3/G5 High-Precision Rolling Elements Sale Market Share by
Application (2021-2026)

2.5.7.2 Global G3/G5 High-Precision Rolling Elements Revenue and Market Share by
Application (2021-2026)

2.5.7.3 Global G3/G5 High-Precision Rolling Elements Sale Price by Application
(2021-2026)

3 GLOBAL BY COMPANY

3.1 Global G3/G5 High-Precision Rolling Elements Breakdown Data by Company

3.1.1 Global G3/G5 High-Precision Rolling Elements Annual Sales by Company
(2021-2026)

3.1.2 Global G3/G5 High-Precision Rolling Elements Sales Market Share by Company
(2021-2026)

3.2 Global G3/G5 High-Precision Rolling Elements Annual Revenue by Company
(2021-2026)

3.2.1 Global G3/G5 High-Precision Rolling Elements Revenue by Company

(2021-2026)

3.2.2 Global G3/G5 High-Precision Rolling Elements Revenue Market Share by Company (2021-2026)

3.3 Global G3/G5 High-Precision Rolling Elements Sale Price by Company

3.4 Key Manufacturers G3/G5 High-Precision Rolling Elements Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers G3/G5 High-Precision Rolling Elements Product Location Distribution

3.4.2 Players G3/G5 High-Precision Rolling Elements Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR G3/G5 HIGH-PRECISION ROLLING ELEMENTS BY GEOGRAPHIC REGION

4.1 World Historic G3/G5 High-Precision Rolling Elements Market Size by Geographic Region (2021-2026)

4.1.1 Global G3/G5 High-Precision Rolling Elements Annual Sales by Geographic Region (2021-2026)

4.1.2 Global G3/G5 High-Precision Rolling Elements Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic G3/G5 High-Precision Rolling Elements Market Size by Country/Region (2021-2026)

4.2.1 Global G3/G5 High-Precision Rolling Elements Annual Sales by Country/Region (2021-2026)

4.2.2 Global G3/G5 High-Precision Rolling Elements Annual Revenue by Country/Region (2021-2026)

4.3 Americas G3/G5 High-Precision Rolling Elements Sales Growth

4.4 APAC G3/G5 High-Precision Rolling Elements Sales Growth

4.5 Europe G3/G5 High-Precision Rolling Elements Sales Growth

4.6 Middle East & Africa G3/G5 High-Precision Rolling Elements Sales Growth

5 AMERICAS

5.1 Americas G3/G5 High-Precision Rolling Elements Sales by Country

5.1.1 Americas G3/G5 High-Precision Rolling Elements Sales by Country (2021-2026)

5.1.2 Americas G3/G5 High-Precision Rolling Elements Revenue by Country (2021-2026)

5.2 Americas G3/G5 High-Precision Rolling Elements Sales by Type (2021-2026)

5.3 Americas G3/G5 High-Precision Rolling Elements Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC G3/G5 High-Precision Rolling Elements Sales by Region

6.1.1 APAC G3/G5 High-Precision Rolling Elements Sales by Region (2021-2026)

6.1.2 APAC G3/G5 High-Precision Rolling Elements Revenue by Region (2021-2026)

6.2 APAC G3/G5 High-Precision Rolling Elements Sales by Type (2021-2026)

6.3 APAC G3/G5 High-Precision Rolling Elements Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe G3/G5 High-Precision Rolling Elements by Country

7.1.1 Europe G3/G5 High-Precision Rolling Elements Sales by Country (2021-2026)

7.1.2 Europe G3/G5 High-Precision Rolling Elements Revenue by Country (2021-2026)

7.2 Europe G3/G5 High-Precision Rolling Elements Sales by Type (2021-2026)

7.3 Europe G3/G5 High-Precision Rolling Elements Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa G3/G5 High-Precision Rolling Elements by Country

8.1.1 Middle East & Africa G3/G5 High-Precision Rolling Elements Sales by Country (2021-2026)

8.1.2 Middle East & Africa G3/G5 High-Precision Rolling Elements Revenue by Country (2021-2026)

8.2 Middle East & Africa G3/G5 High-Precision Rolling Elements Sales by Type (2021-2026)

8.3 Middle East & Africa G3/G5 High-Precision Rolling Elements Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of G3/G5 High-Precision Rolling Elements

10.3 Manufacturing Process Analysis of G3/G5 High-Precision Rolling Elements

10.4 Industry Chain Structure of G3/G5 High-Precision Rolling Elements

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 G3/G5 High-Precision Rolling Elements Distributors

11.3 G3/G5 High-Precision Rolling Elements Customer

12 WORLD FORECAST REVIEW FOR G3/G5 HIGH-PRECISION ROLLING ELEMENTS BY GEOGRAPHIC REGION

- 12.1 Global G3/G5 High-Precision Rolling Elements Market Size Forecast by Region
 - 12.1.1 Global G3/G5 High-Precision Rolling Elements Forecast by Region (2027-2032)
 - 12.1.2 Global G3/G5 High-Precision Rolling Elements Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global G3/G5 High-Precision Rolling Elements Forecast by Type (2027-2032)
- 12.7 Global G3/G5 High-Precision Rolling Elements Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Tsubaki Nakashima

- 13.1.1 Tsubaki Nakashima Company Information
- 13.1.2 Tsubaki Nakashima G3/G5 High-Precision Rolling Elements Product Portfolios and Specifications
- 13.1.3 Tsubaki Nakashima G3/G5 High-Precision Rolling Elements Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.1.4 Tsubaki Nakashima Main Business Overview
- 13.1.5 Tsubaki Nakashima Latest Developments

13.2 Daio Steel Ball

- 13.2.1 Daio Steel Ball Company Information
- 13.2.2 Daio Steel Ball G3/G5 High-Precision Rolling Elements Product Portfolios and Specifications
- 13.2.3 Daio Steel Ball G3/G5 High-Precision Rolling Elements Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.2.4 Daio Steel Ball Main Business Overview
- 13.2.5 Daio Steel Ball Latest Developments

13.3 Amatsuji Steel Ball Mfg. Co., Ltd.

- 13.3.1 Amatsuji Steel Ball Mfg. Co., Ltd. Company Information
- 13.3.2 Amatsuji Steel Ball Mfg. Co., Ltd. G3/G5 High-Precision Rolling Elements Product Portfolios and Specifications
- 13.3.3 Amatsuji Steel Ball Mfg. Co., Ltd. G3/G5 High-Precision Rolling Elements Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.3.4 Amatsuji Steel Ball Mfg. Co., Ltd. Main Business Overview
- 13.3.5 Amatsuji Steel Ball Mfg. Co., Ltd. Latest Developments

13.4 STR Industries.

13.4.1 STR Industries. Company Information

13.4.2 STR Industries. G3/G5 High-Precision Rolling Elements Product Portfolios and Specifications

13.4.3 STR Industries. G3/G5 High-Precision Rolling Elements Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 STR Industries. Main Business Overview

13.4.5 STR Industries. Latest Developments

13.5 SHANDONG DONGE STEEL BALL GROUP CO.,LTD.

13.5.1 SHANDONG DONGE STEEL BALL GROUP CO.,LTD. Company Information

13.5.2 SHANDONG DONGE STEEL BALL GROUP CO.,LTD. G3/G5 High-Precision Rolling Elements Product Portfolios and Specifications

13.5.3 SHANDONG DONGE STEEL BALL GROUP CO.,LTD. G3/G5 High-Precision Rolling Elements Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 SHANDONG DONGE STEEL BALL GROUP CO.,LTD. Main Business Overview

13.5.5 SHANDONG DONGE STEEL BALL GROUP CO.,LTD. Latest Developments

13.6 Jiangsu Lixing General Steel Ball Co.,Ltd.

13.6.1 Jiangsu Lixing General Steel Ball Co.,Ltd. Company Information

13.6.2 Jiangsu Lixing General Steel Ball Co.,Ltd. G3/G5 High-Precision Rolling Elements Product Portfolios and Specifications

13.6.3 Jiangsu Lixing General Steel Ball Co.,Ltd. G3/G5 High-Precision Rolling Elements Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Jiangsu Lixing General Steel Ball Co.,Ltd. Main Business Overview

13.6.5 Jiangsu Lixing General Steel Ball Co.,Ltd. Latest Developments

13.7 Shanghai E-Tech Steel Ball Co.,Ltd.

13.7.1 Shanghai E-Tech Steel Ball Co.,Ltd. Company Information

13.7.2 Shanghai E-Tech Steel Ball Co.,Ltd. G3/G5 High-Precision Rolling Elements Product Portfolios and Specifications

13.7.3 Shanghai E-Tech Steel Ball Co.,Ltd. G3/G5 High-Precision Rolling Elements Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Shanghai E-Tech Steel Ball Co.,Ltd. Main Business Overview

13.7.5 Shanghai E-Tech Steel Ball Co.,Ltd. Latest Developments

13.8 Dong-e Huatao Steelball Co., Ltd.

13.8.1 Dong-e Huatao Steelball Co., Ltd. Company Information

13.8.2 Dong-e Huatao Steelball Co., Ltd. G3/G5 High-Precision Rolling Elements Product Portfolios and Specifications

13.8.3 Dong-e Huatao Steelball Co., Ltd. G3/G5 High-Precision Rolling Elements Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Dong-e Huatao Steelball Co., Ltd. Main Business Overview

13.8.5 Dong-e Huatao Steelball Co., Ltd. Latest Developments

13.9 Zhongshan Qianrun Precision Steel Ball Co., Ltd

13.9.1 Zhongshan Qianrun Precision Steel Ball Co., Ltd Company Information

13.9.2 Zhongshan Qianrun Precision Steel Ball Co., Ltd G3/G5 High-Precision Rolling Elements Product Portfolios and Specifications

13.9.3 Zhongshan Qianrun Precision Steel Ball Co., Ltd G3/G5 High-Precision Rolling Elements Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Zhongshan Qianrun Precision Steel Ball Co., Ltd Main Business Overview

13.9.5 Zhongshan Qianrun Precision Steel Ball Co., Ltd Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. G3/G5 High-Precision Rolling Elements Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. G3/G5 High-Precision Rolling Elements Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of G3 Precision Steel Ball

Table 4. Major Players of G5 Precision Steel Ball

Table 5. Global G3/G5 High-Precision Rolling Elements Sales by Type (2021-2026) & (Tons)

Table 6. Global G3/G5 High-Precision Rolling Elements Sales Market Share by Type (2021-2026)

Table 7. Global G3/G5 High-Precision Rolling Elements Revenue by Type (2021-2026) & (\$ million)

Table 8. Global G3/G5 High-Precision Rolling Elements Revenue Market Share by Type (2021-2026)

Table 9. Global G3/G5 High-Precision Rolling Elements Sale Price by Type (2021-2026) & (US\$/Ton)

Table 10. Major Players of Steel Ball

Table 11. Major Players of Ceramic Ball

Table 12. Global G3/G5 High-Precision Rolling Elements Sales by Material (2021-2026) & (Tons)

Table 13. Global G3/G5 High-Precision Rolling Elements Sales Market Share by Material (2021-2026)

Table 14. Global G3/G5 High-Precision Rolling Elements Revenue by Material (2021-2026) & (\$ million)

Table 15. Global G3/G5 High-Precision Rolling Elements Revenue Market Share by Material (2021-2026)

Table 16. Global G3/G5 High-Precision Rolling Elements Sale Price by Material (2021-2026) & (US\$/Ton)

Table 17. Major Players of 0.600-1.588mm

Table 18. Major Players of 1.589-2.381mm

Table 19. Major Players of 2.382-3.969mm

Table 20. Major Players of Others

Table 21. Global G3/G5 High-Precision Rolling Elements Sales by Diameter (2021-2026) & (Tons)

Table 22. Global G3/G5 High-Precision Rolling Elements Sales Market Share by

Diameter (2021-2026)

Table 23. Global G3/G5 High-Precision Rolling Elements Revenue by Diameter (2021-2026) & (\$ million)

Table 24. Global G3/G5 High-Precision Rolling Elements Revenue Market Share by Diameter (2021-2026)

Table 25. Global G3/G5 High-Precision Rolling Elements Sale Price by Diameter (2021-2026) & (US\$/Ton)

Table 26. Global G3/G5 High-Precision Rolling Elements Sale by Application (2021-2026) & (Tons)

Table 27. Global G3/G5 High-Precision Rolling Elements Sale Market Share by Application (2021-2026)

Table 28. Global G3/G5 High-Precision Rolling Elements Revenue by Application (2021-2026) & (\$ million)

Table 29. Global G3/G5 High-Precision Rolling Elements Revenue Market Share by Application (2021-2026)

Table 30. Global G3/G5 High-Precision Rolling Elements Sale Price by Application (2021-2026) & (US\$/Ton)

Table 31. Global G3/G5 High-Precision Rolling Elements Sales by Company (2021-2026) & (Tons)

Table 32. Global G3/G5 High-Precision Rolling Elements Sales Market Share by Company (2021-2026)

Table 33. Global G3/G5 High-Precision Rolling Elements Revenue by Company (2021-2026) & (\$ millions)

Table 34. Global G3/G5 High-Precision Rolling Elements Revenue Market Share by Company (2021-2026)

Table 35. Global G3/G5 High-Precision Rolling Elements Sale Price by Company (2021-2026) & (US\$/Ton)

Table 36. Key Manufacturers G3/G5 High-Precision Rolling Elements Producing Area Distribution and Sales Area

Table 37. Players G3/G5 High-Precision Rolling Elements Products Offered

Table 38. G3/G5 High-Precision Rolling Elements Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 39. New Products and Potential Entrants

Table 40. Market M&A Activity & Strategy

Table 41. Global G3/G5 High-Precision Rolling Elements Sales by Geographic Region (2021-2026) & (Tons)

Table 42. Global G3/G5 High-Precision Rolling Elements Sales Market Share Geographic Region (2021-2026)

Table 43. Global G3/G5 High-Precision Rolling Elements Revenue by Geographic

Region (2021-2026) & (\$ millions)

Table 44. Global G3/G5 High-Precision Rolling Elements Revenue Market Share by Geographic Region (2021-2026)

Table 45. Global G3/G5 High-Precision Rolling Elements Sales by Country/Region (2021-2026) & (Tons)

Table 46. Global G3/G5 High-Precision Rolling Elements Sales Market Share by Country/Region (2021-2026)

Table 47. Global G3/G5 High-Precision Rolling Elements Revenue by Country/Region (2021-2026) & (\$ millions)

Table 48. Global G3/G5 High-Precision Rolling Elements Revenue Market Share by Country/Region (2021-2026)

Table 49. Americas G3/G5 High-Precision Rolling Elements Sales by Country (2021-2026) & (Tons)

Table 50. Americas G3/G5 High-Precision Rolling Elements Sales Market Share by Country (2021-2026)

Table 51. Americas G3/G5 High-Precision Rolling Elements Revenue by Country (2021-2026) & (\$ millions)

Table 52. Americas G3/G5 High-Precision Rolling Elements Sales by Type (2021-2026) & (Tons)

Table 53. Americas G3/G5 High-Precision Rolling Elements Sales by Application (2021-2026) & (Tons)

Table 54. APAC G3/G5 High-Precision Rolling Elements Sales by Region (2021-2026) & (Tons)

Table 55. APAC G3/G5 High-Precision Rolling Elements Sales Market Share by Region (2021-2026)

Table 56. APAC G3/G5 High-Precision Rolling Elements Revenue by Region (2021-2026) & (\$ millions)

Table 57. APAC G3/G5 High-Precision Rolling Elements Sales by Type (2021-2026) & (Tons)

Table 58. APAC G3/G5 High-Precision Rolling Elements Sales by Application (2021-2026) & (Tons)

Table 59. Europe G3/G5 High-Precision Rolling Elements Sales by Country (2021-2026) & (Tons)

Table 60. Europe G3/G5 High-Precision Rolling Elements Revenue by Country (2021-2026) & (\$ millions)

Table 61. Europe G3/G5 High-Precision Rolling Elements Sales by Type (2021-2026) & (Tons)

Table 62. Europe G3/G5 High-Precision Rolling Elements Sales by Application (2021-2026) & (Tons)

Table 63. Middle East & Africa G3/G5 High-Precision Rolling Elements Sales by Country (2021-2026) & (Tons)

Table 64. Middle East & Africa G3/G5 High-Precision Rolling Elements Revenue Market Share by Country (2021-2026)

Table 65. Middle East & Africa G3/G5 High-Precision Rolling Elements Sales by Type (2021-2026) & (Tons)

Table 66. Middle East & Africa G3/G5 High-Precision Rolling Elements Sales by Application (2021-2026) & (Tons)

Table 67. Key Market Drivers & Growth Opportunities of G3/G5 High-Precision Rolling Elements

Table 68. Key Market Challenges & Risks of G3/G5 High-Precision Rolling Elements

Table 69. Key Industry Trends of G3/G5 High-Precision Rolling Elements

Table 70. G3/G5 High-Precision Rolling Elements Raw Material

Table 71. Key Suppliers of Raw Materials

Table 72. G3/G5 High-Precision Rolling Elements Distributors List

Table 73. G3/G5 High-Precision Rolling Elements Customer List

Table 74. Global G3/G5 High-Precision Rolling Elements Sales Forecast by Region (2027-2032) & (Tons)

Table 75. Global G3/G5 High-Precision Rolling Elements Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 76. Americas G3/G5 High-Precision Rolling Elements Sales Forecast by Country (2027-2032) & (Tons)

Table 77. Americas G3/G5 High-Precision Rolling Elements Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 78. APAC G3/G5 High-Precision Rolling Elements Sales Forecast by Region (2027-2032) & (Tons)

Table 79. APAC G3/G5 High-Precision Rolling Elements Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 80. Europe G3/G5 High-Precision Rolling Elements Sales Forecast by Country (2027-2032) & (Tons)

Table 81. Europe G3/G5 High-Precision Rolling Elements Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 82. Middle East & Africa G3/G5 High-Precision Rolling Elements Sales Forecast by Country (2027-2032) & (Tons)

Table 83. Middle East & Africa G3/G5 High-Precision Rolling Elements Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 84. Global G3/G5 High-Precision Rolling Elements Sales Forecast by Type (2027-2032) & (Tons)

Table 85. Global G3/G5 High-Precision Rolling Elements Revenue Forecast by Type

(2027-2032) & (\$ millions)

Table 86. Global G3/G5 High-Precision Rolling Elements Sales Forecast by Application (2027-2032) & (Tons)

Table 87. Global G3/G5 High-Precision Rolling Elements Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 88. Tsubaki Nakashima Basic Information, G3/G5 High-Precision Rolling Elements Manufacturing Base, Sales Area and Its Competitors

Table 89. Tsubaki Nakashima G3/G5 High-Precision Rolling Elements Product Portfolios and Specifications

Table 90. Tsubaki Nakashima G3/G5 High-Precision Rolling Elements Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 91. Tsubaki Nakashima Main Business

Table 92. Tsubaki Nakashima Latest Developments

Table 93. Daio Steel Ball Basic Information, G3/G5 High-Precision Rolling Elements Manufacturing Base, Sales Area and Its Competitors

Table 94. Daio Steel Ball G3/G5 High-Precision Rolling Elements Product Portfolios and Specifications

Table 95. Daio Steel Ball G3/G5 High-Precision Rolling Elements Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 96. Daio Steel Ball Main Business

Table 97. Daio Steel Ball Latest Developments

Table 98. Amatsuji Steel Ball Mfg. Co., Ltd. Basic Information, G3/G5 High-Precision Rolling Elements Manufacturing Base, Sales Area and Its Competitors

Table 99. Amatsuji Steel Ball Mfg. Co., Ltd. G3/G5 High-Precision Rolling Elements Product Portfolios and Specifications

Table 100. Amatsuji Steel Ball Mfg. Co., Ltd. G3/G5 High-Precision Rolling Elements Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 101. Amatsuji Steel Ball Mfg. Co., Ltd. Main Business

Table 102. Amatsuji Steel Ball Mfg. Co., Ltd. Latest Developments

Table 103. STR Industries. Basic Information, G3/G5 High-Precision Rolling Elements Manufacturing Base, Sales Area and Its Competitors

Table 104. STR Industries. G3/G5 High-Precision Rolling Elements Product Portfolios and Specifications

Table 105. STR Industries. G3/G5 High-Precision Rolling Elements Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 106. STR Industries. Main Business

Table 107. STR Industries. Latest Developments

Table 108. SHANDONG DONGE STEEL BALL GROUP CO.,LTD. Basic Information, G3/G5 High-Precision Rolling Elements Manufacturing Base, Sales Area and Its

Competitors

Table 109. SHANDONG DONGE STEEL BALL GROUP CO.,LTD. G3/G5 High-Precision Rolling Elements Product Portfolios and Specifications

Table 110. SHANDONG DONGE STEEL BALL GROUP CO.,LTD. G3/G5 High-Precision Rolling Elements Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 111. SHANDONG DONGE STEEL BALL GROUP CO.,LTD. Main Business

Table 112. SHANDONG DONGE STEEL BALL GROUP CO.,LTD. Latest Developments

Table 113. Jiangsu Lixing General Steel Ball Co.,Ltd. Basic Information, G3/G5 High-Precision Rolling Elements Manufacturing Base, Sales Area and Its Competitors

Table 114. Jiangsu Lixing General Steel Ball Co.,Ltd. G3/G5 High-Precision Rolling Elements Product Portfolios and Specifications

Table 115. Jiangsu Lixing General Steel Ball Co.,Ltd. G3/G5 High-Precision Rolling Elements Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 116. Jiangsu Lixing General Steel Ball Co.,Ltd. Main Business

Table 117. Jiangsu Lixing General Steel Ball Co.,Ltd. Latest Developments

Table 118. Shanghai E-Tech Steel Ball Co.,Ltd. Basic Information, G3/G5 High-Precision Rolling Elements Manufacturing Base, Sales Area and Its Competitors

Table 119. Shanghai E-Tech Steel Ball Co.,Ltd. G3/G5 High-Precision Rolling Elements Product Portfolios and Specifications

Table 120. Shanghai E-Tech Steel Ball Co.,Ltd. G3/G5 High-Precision Rolling Elements Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 121. Shanghai E-Tech Steel Ball Co.,Ltd. Main Business

Table 122. Shanghai E-Tech Steel Ball Co.,Ltd. Latest Developments

Table 123. Dong-e Huatao Steelball Co., Ltd. Basic Information, G3/G5 High-Precision Rolling Elements Manufacturing Base, Sales Area and Its Competitors

Table 124. Dong-e Huatao Steelball Co., Ltd. G3/G5 High-Precision Rolling Elements Product Portfolios and Specifications

Table 125. Dong-e Huatao Steelball Co., Ltd. G3/G5 High-Precision Rolling Elements Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 126. Dong-e Huatao Steelball Co., Ltd. Main Business

Table 127. Dong-e Huatao Steelball Co., Ltd. Latest Developments

Table 128. Zhongshan Qianrun Precision Steel Ball Co., Ltd Basic Information, G3/G5 High-Precision Rolling Elements Manufacturing Base, Sales Area and Its Competitors

Table 129. Zhongshan Qianrun Precision Steel Ball Co., Ltd G3/G5 High-Precision Rolling Elements Product Portfolios and Specifications

Table 130. Zhongshan Qianrun Precision Steel Ball Co., Ltd G3/G5 High-Precision

Rolling Elements Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin
(2021-2026)

Table 131. Zhongshan Qianrun Precision Steel Ball Co., Ltd Main Business

Table 132. Zhongshan Qianrun Precision Steel Ball Co., Ltd Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Picture of G3/G5 High-Precision Rolling Elements

Figure 2. G3/G5 High-Precision Rolling Elements Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global G3/G5 High-Precision Rolling Elements Sales Growth Rate 2021-2032 (Tons)

Figure 7. Global G3/G5 High-Precision Rolling Elements Revenue Growth Rate 2021-2032 (\$ millions)

Figure 8. G3/G5 High-Precision Rolling Elements Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 9. G3/G5 High-Precision Rolling Elements Sales Market Share by Country/Region (2025)

Figure 10. G3/G5 High-Precision Rolling Elements Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of G3 Precision Steel Ball

Figure 12. Product Picture of G5 Precision Steel Ball

Figure 13. Global G3/G5 High-Precision Rolling Elements Sales Market Share by Type in 2026

Figure 14. Global G3/G5 High-Precision Rolling Elements Revenue Market Share by Type (2021-2026)

Figure 15. Product Picture of Steel Ball

Figure 16. Product Picture of Ceramic Ball

Figure 17. Global G3/G5 High-Precision Rolling Elements Sales Market Share by Material in 2026

Figure 18. Global G3/G5 High-Precision Rolling Elements Revenue Market Share by Material (2021-2026)

Figure 19. Product Picture of 0.600-1.588mm

Figure 20. Product Picture of 1.589-2.381mm

Figure 21. Product Picture of 2.382-3.969mm

Figure 22. Product Picture of Others

Figure 23. Global G3/G5 High-Precision Rolling Elements Sales Market Share by Diameter in 2026

Figure 24. Global G3/G5 High-Precision Rolling Elements Revenue Market Share by Diameter (2021-2026)

- Figure 25. G3/G5 High-Precision Rolling Elements Consumed in Motors
- Figure 26. Global G3/G5 High-Precision Rolling Elements Market: Motors (2021-2026) & (Tons)
- Figure 27. G3/G5 High-Precision Rolling Elements Consumed in Robotics
- Figure 28. Global G3/G5 High-Precision Rolling Elements Market: Robotics (2021-2026) & (Tons)
- Figure 29. G3/G5 High-Precision Rolling Elements Consumed in Industrial Mother Machines
- Figure 30. Global G3/G5 High-Precision Rolling Elements Market: Industrial Mother Machines (2021-2026) & (Tons)
- Figure 31. G3/G5 High-Precision Rolling Elements Consumed in Medical Devices
- Figure 32. Global G3/G5 High-Precision Rolling Elements Market: Medical Devices (2021-2026) & (Tons)
- Figure 33. G3/G5 High-Precision Rolling Elements Consumed in New Energy Vehicle Electric Drive Systems
- Figure 34. Global G3/G5 High-Precision Rolling Elements Market: New Energy Vehicle Electric Drive Systems (2021-2026) & (Tons)
- Figure 35. G3/G5 High-Precision Rolling Elements Consumed in Others
- Figure 36. Global G3/G5 High-Precision Rolling Elements Market: Others (2021-2026) & (Tons)
- Figure 37. Global G3/G5 High-Precision Rolling Elements Sale Market Share by Application (2025)
- Figure 38. Global G3/G5 High-Precision Rolling Elements Revenue Market Share by Application in 2025
- Figure 39. G3/G5 High-Precision Rolling Elements Sales by Company in 2025 (Tons)
- Figure 40. Global G3/G5 High-Precision Rolling Elements Sales Market Share by Company in 2025
- Figure 41. G3/G5 High-Precision Rolling Elements Revenue by Company in 2025 (\$ millions)
- Figure 42. Global G3/G5 High-Precision Rolling Elements Revenue Market Share by Company in 2025
- Figure 43. Global G3/G5 High-Precision Rolling Elements Sales Market Share by Geographic Region (2021-2026)
- Figure 44. Global G3/G5 High-Precision Rolling Elements Revenue Market Share by Geographic Region in 2025
- Figure 45. Americas G3/G5 High-Precision Rolling Elements Sales 2021-2026 (Tons)
- Figure 46. Americas G3/G5 High-Precision Rolling Elements Revenue 2021-2026 (\$ millions)
- Figure 47. APAC G3/G5 High-Precision Rolling Elements Sales 2021-2026 (Tons)

Figure 48. APAC G3/G5 High-Precision Rolling Elements Revenue 2021-2026 (\$ millions)

Figure 49. Europe G3/G5 High-Precision Rolling Elements Sales 2021-2026 (Tons)

Figure 50. Europe G3/G5 High-Precision Rolling Elements Revenue 2021-2026 (\$ millions)

Figure 51. Middle East & Africa G3/G5 High-Precision Rolling Elements Sales 2021-2026 (Tons)

Figure 52. Middle East & Africa G3/G5 High-Precision Rolling Elements Revenue 2021-2026 (\$ millions)

Figure 53. Americas G3/G5 High-Precision Rolling Elements Sales Market Share by Country in 2025

Figure 54. Americas G3/G5 High-Precision Rolling Elements Revenue Market Share by Country (2021-2026)

Figure 55. Americas G3/G5 High-Precision Rolling Elements Sales Market Share by Type (2021-2026)

Figure 56. Americas G3/G5 High-Precision Rolling Elements Sales Market Share by Application (2021-2026)

Figure 57. United States G3/G5 High-Precision Rolling Elements Revenue Growth 2021-2026 (\$ millions)

Figure 58. Canada G3/G5 High-Precision Rolling Elements Revenue Growth 2021-2026 (\$ millions)

Figure 59. Mexico G3/G5 High-Precision Rolling Elements Revenue Growth 2021-2026 (\$ millions)

Figure 60. Brazil G3/G5 High-Precision Rolling Elements Revenue Growth 2021-2026 (\$ millions)

Figure 61. APAC G3/G5 High-Precision Rolling Elements Sales Market Share by Region in 2025

Figure 62. APAC G3/G5 High-Precision Rolling Elements Revenue Market Share by Region (2021-2026)

Figure 63. APAC G3/G5 High-Precision Rolling Elements Sales Market Share by Type (2021-2026)

Figure 64. APAC G3/G5 High-Precision Rolling Elements Sales Market Share by Application (2021-2026)

Figure 65. China G3/G5 High-Precision Rolling Elements Revenue Growth 2021-2026 (\$ millions)

Figure 66. Japan G3/G5 High-Precision Rolling Elements Revenue Growth 2021-2026 (\$ millions)

Figure 67. South Korea G3/G5 High-Precision Rolling Elements Revenue Growth 2021-2026 (\$ millions)

Figure 68. Southeast Asia G3/G5 High-Precision Rolling Elements Revenue Growth 2021-2026 (\$ millions)

Figure 69. India G3/G5 High-Precision Rolling Elements Revenue Growth 2021-2026 (\$ millions)

Figure 70. Australia G3/G5 High-Precision Rolling Elements Revenue Growth 2021-2026 (\$ millions)

Figure 71. China Taiwan G3/G5 High-Precision Rolling Elements Revenue Growth 2021-2026 (\$ millions)

Figure 72. Europe G3/G5 High-Precision Rolling Elements Sales Market Share by Country in 2025

Figure 73. Europe G3/G5 High-Precision Rolling Elements Revenue Market Share by Country (2021-2026)

Figure 74. Europe G3/G5 High-Precision Rolling Elements Sales Market Share by Type (2021-2026)

Figure 75. Europe G3/G5 High-Precision Rolling Elements Sales Market Share by Application (2021-2026)

Figure 76. Germany G3/G5 High-Precision Rolling Elements Revenue Growth 2021-2026 (\$ millions)

Figure 77. France G3/G5 High-Precision Rolling Elements Revenue Growth 2021-2026 (\$ millions)

Figure 78. UK G3/G5 High-Precision Rolling Elements Revenue Growth 2021-2026 (\$ millions)

Figure 79. Italy G3/G5 High-Precision Rolling Elements Revenue Growth 2021-2026 (\$ millions)

Figure 80. Russia G3/G5 High-Precision Rolling Elements Revenue Growth 2021-2026 (\$ millions)

Figure 81. Middle East & Africa G3/G5 High-Precision Rolling Elements Sales Market Share by Country (2021-2026)

Figure 82. Middle East & Africa G3/G5 High-Precision Rolling Elements Sales Market Share by Type (2021-2026)

Figure 83. Middle East & Africa G3/G5 High-Precision Rolling Elements Sales Market Share by Application (2021-2026)

Figure 84. Egypt G3/G5 High-Precision Rolling Elements Revenue Growth 2021-2026 (\$ millions)

Figure 85. South Africa G3/G5 High-Precision Rolling Elements Revenue Growth 2021-2026 (\$ millions)

Figure 86. Israel G3/G5 High-Precision Rolling Elements Revenue Growth 2021-2026 (\$ millions)

Figure 87. Turkey G3/G5 High-Precision Rolling Elements Revenue Growth 2021-2026

(\$ millions)

Figure 88. GCC Countries G3/G5 High-Precision Rolling Elements Revenue Growth 2021-2026 (\$ millions)

Figure 89. Manufacturing Cost Structure Analysis of G3/G5 High-Precision Rolling Elements in 2026

Figure 90. Manufacturing Process Analysis of G3/G5 High-Precision Rolling Elements

Figure 91. Industry Chain Structure of G3/G5 High-Precision Rolling Elements

Figure 92. Channels of Distribution

Figure 93. Global G3/G5 High-Precision Rolling Elements Sales Market Forecast by Region (2027-2032)

Figure 94. Global G3/G5 High-Precision Rolling Elements Revenue Market Share Forecast by Region (2027-2032)

Figure 95. Global G3/G5 High-Precision Rolling Elements Sales Market Share Forecast by Type (2027-2032)

Figure 96. Global G3/G5 High-Precision Rolling Elements Revenue Market Share Forecast by Type (2027-2032)

Figure 97. Global G3/G5 High-Precision Rolling Elements Sales Market Share Forecast by Application (2027-2032)

Figure 98. Global G3/G5 High-Precision Rolling Elements Revenue Market Share Forecast by Application (2027-2032)

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