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Global Heavy Load Ball Screw Market Growth 2026-2032

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Abstracts

The global Heavy Load Ball Screw market size is predicted to grow from US$ 656 million in 2025 to US$ 869 million in 2032; it is expected to grow at a CAGR of 4.2% from 2026 to 2032.

Heavy load ball screws are high-capacity linear motion components designed with larger shaft diameters, reinforced ball circuits, optimized nut geometries, and enhanced preload structures to withstand extremely high axial loads, high duty cycles, and heavy shock forces while providing efficient, smooth motion conversion from rotary to linear movement, widely used in heavy industrial machinery, large CNC machine tools, construction equipment, injection molding machines, automotive production lines, and other high-load mechanical systems requiring durability, stiffness, and long service life.

The heavy load ball screw market industry chain begins upstream with alloy steels, bearing steels, large-diameter bars, heat treatment services, precision machining tools, balls, coatings and lubrication materials, continues midstream with manufacturers performing forging, turning, heat treatment, deep-thread rolling or grinding, multi-circuit nut machining, ball recirculation optimization, preload assembly and performance testing, and extends downstream to CNC machine tool builders, injection molding and die-casting equipment OEMs, construction and mining machinery producers, automation system integrators and industrial retrofit companies, which integrate heavy load ball screws into high-force, high-duty, long-stroke motion systems across global heavy industries.

Current and planned heavy load ball screw projects include production capacity expansion by Asian and European manufacturers for large-diameter and ultra-heavy-load screws, new machining and grinding centers for diameters above 120 mm,

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localization projects in China and India for heavy industrial machinery components, integration of automation and AI-driven quality inspection for large-size screw manufacturing, development programs targeting high-efficiency heavy-load screws for electric injection molding machines and servo presses, and investments in advanced coatings, longer-stroke heavy-load assemblies, and specialized solutions for mining, shipbuilding, aerospace fixtures and next-generation large-scale CNC equipment.

2024 Global Market sales Volume: 6.5 million units, Average Global Market Price: 98 USD per unit, Market Average Gross Profit Margin: 19%.

The heavy load ball screw market benefits from growing demand in large CNC machining, automotive production automation, construction machinery, and especially electric injection molding machines and servo presses replacing hydraulic systems. These shifts toward electromechanical actuation require ball screws capable of extremely high forces, high duty cycles, and long service life, positioning heavy-load designs as critical linear-motion solutions in industrial modernization. Asia?Pacific, particularly China, Japan and Taiwan, dominates production due to the concentration of heavy machine tool and molding machine OEMs, while Europe remains strong in high-end heavy-duty precision products, especially for aerospace and industrial press applications.

North America continues to adopt heavy-load ball screws through automation upgrades in automotive, EV battery production, and composite material processing. Key market opportunities lie in the electrification of industrial machinery, replacing hydraulic cylinders with servo-driven heavy-load ball screws for energy efficiency, accuracy, and environmental regulatory compliance. Rising use of large gantry-type CNC machines and increasing size of molds and die-cast components (driven by EV and lightweighting trends) also expand demand for large-diameter high-force screws. Risks include cyclic downturns in capital equipment investment, competition from roller screws in ultra-high-force applications, and cost fluctuations in alloy steel and machining capacity.

Market trends include increasing diameter ranges, improved nut load distribution, low-friction coatings, thermal-stability enhancements and higher-speed heavy-load designs enabling faster clamping and feed movements. Manufacturers are also automating production lines for large-diameter grinding and rolling to reduce labor intensity and improve consistency. The competitive landscape is moderately concentrated, with Japanese, German and Taiwanese companies leading the ultra-heavy-load segment and Chinese manufacturers quickly scaling capacity and improving technical capability.

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Over the next five years, the heavy load ball screw market is expected to grow at mid-single-digit CAGR, supported by global manufacturing upgrades, molding machine electrification, and expansion of automotive, aerospace and large-format CNC machining industries.

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

This Insight Report provides a comprehensive analysis of the global Heavy Load Ball Screw 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 Heavy Load Ball Screw portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global Heavy Load Ball Screw market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Heavy Load Ball Screw 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 Heavy Load Ball Screw.

This report presents a comprehensive overview, market shares, and growth opportunities of Heavy Load Ball Screw market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Medium-large (32?63 mm)

Large (63?100 mm)

Extra-large (100?160 mm)

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Custom Oversized (>160 mm)

Segmentation by Load Capacity Class:

Standard Heavy-load Class

Ultra-heavy-load Class

Shock-resistant Heavy-load Screws

High-speed Heavy-load Screws

Segmentation by Manufacturing Method:

Ground heavy-load Ball Screws

Rolled heavy-load Ball Screws

Hybrid-ground

Segmentation by Application:

Large CNC Machine Tool

Injection Molding & Die-casting Machine

Industrial Presses & Forming Machine

Automotive Production Automation

Others

This report also splits the market by region:

Americas

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United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

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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.

NSK

Hiwin

THK

Schaeffler

PMI

TBI MOTION

Tsubaki Nakashima

Kuroda

ISSOKU

Thomson Industries (Regal Rexnord)

MinebeaMitsumi

KSK Precise Motion

Hilectro Precision

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Key Questions Addressed in this Report

What is the 10-year outlook for the global Heavy Load Ball Screw market?

What factors are driving Heavy Load Ball Screw market growth, globally and by region?

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

How do Heavy Load Ball Screw market opportunities vary by end market size?

How does Heavy Load Ball Screw break out by Type, by Application?

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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 Heavy Load Ball Screw Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for Heavy Load Ball Screw by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for Heavy Load Ball Screw by Country/Region, 2021, 2025 & 2032
2.2 Heavy Load Ball Screw Segment by Type
  2.2.1 Internal Circulation Ball Screw
  2.2.2 External Circulation Ball Screw
  2.2.3 Heavy Load Ball Screw Sales by Type
    2.2.3.1 Global Heavy Load Ball Screw Sales Market Share by Type (2021-2026)
    2.2.3.2 Global Heavy Load Ball Screw Revenue and Market Share by Type (2021-2026)
    2.2.3.3 Global Heavy Load Ball Screw Sale Price by Type (2021-2026)
2.3 Heavy Load Ball Screw Segment by Application
  2.3.1 CNC Machine
  2.3.2 Semiconductor Machinery
  2.3.3 Measuring Instrument
  2.3.4 Medical Instruments
  2.3.5 Aerospace
  2.3.6 Others
  2.3.7 Heavy Load Ball Screw Sales by Application
    2.3.7.1 Global Heavy Load Ball Screw Sale Market Share by Application (2021-2026)
    2.3.7.2 Global Heavy Load Ball Screw Revenue and Market Share by Application

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(2021-2026)
2.3.7.3 Global Heavy Load Ball Screw Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Heavy Load Ball Screw Breakdown Data by Company
3.1.1 Global Heavy Load Ball Screw Annual Sales by Company (2021-2026)
3.1.2 Global Heavy Load Ball Screw Sales Market Share by Company (2021-2026)
3.2 Global Heavy Load Ball Screw Annual Revenue by Company (2021-2026)
3.2.1 Global Heavy Load Ball Screw Revenue by Company (2021-2026)
3.2.2 Global Heavy Load Ball Screw Revenue Market Share by Company (2021-2026)
3.3 Global Heavy Load Ball Screw Sale Price by Company
3.4 Key Manufacturers Heavy Load Ball Screw Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Heavy Load Ball Screw Product Location Distribution
3.4.2 Players Heavy Load Ball Screw 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 HEAVY LOAD BALL SCREW BY GEOGRAPHIC REGION

4.1 World Historic Heavy Load Ball Screw Market Size by Geographic Region (2021-2026)
4.1.1 Global Heavy Load Ball Screw Annual Sales by Geographic Region (2021-2026)
4.1.2 Global Heavy Load Ball Screw Annual Revenue by Geographic Region (2021-2026)
4.2 World Historic Heavy Load Ball Screw Market Size by Country/Region (2021-2026)
4.2.1 Global Heavy Load Ball Screw Annual Sales by Country/Region (2021-2026)
4.2.2 Global Heavy Load Ball Screw Annual Revenue by Country/Region (2021-2026)
4.3 Americas Heavy Load Ball Screw Sales Growth
4.4 APAC Heavy Load Ball Screw Sales Growth
4.5 Europe Heavy Load Ball Screw Sales Growth
4.6 Middle East & Africa Heavy Load Ball Screw Sales Growth

5 AMERICAS

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5.1 Americas Heavy Load Ball Screw Sales by Country
5.1.1 Americas Heavy Load Ball Screw Sales by Country (2021-2026)
5.1.2 Americas Heavy Load Ball Screw Revenue by Country (2021-2026)
5.2 Americas Heavy Load Ball Screw Sales by Type (2021-2026)
5.3 Americas Heavy Load Ball Screw Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Heavy Load Ball Screw Sales by Region
6.1.1 APAC Heavy Load Ball Screw Sales by Region (2021-2026)
6.1.2 APAC Heavy Load Ball Screw Revenue by Region (2021-2026)
6.2 APAC Heavy Load Ball Screw Sales by Type (2021-2026)
6.3 APAC Heavy Load Ball Screw 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 Heavy Load Ball Screw by Country
7.1.1 Europe Heavy Load Ball Screw Sales by Country (2021-2026)
7.1.2 Europe Heavy Load Ball Screw Revenue by Country (2021-2026)
7.2 Europe Heavy Load Ball Screw Sales by Type (2021-2026)
7.3 Europe Heavy Load Ball Screw Sales by Application (2021-2026)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

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info@marketpublishers.com

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Heavy Load Ball Screw by Country
  8.1.1 Middle East & Africa Heavy Load Ball Screw Sales by Country (2021-2026)
  8.1.2 Middle East & Africa Heavy Load Ball Screw Revenue by Country (2021-2026)
8.2 Middle East & Africa Heavy Load Ball Screw Sales by Type (2021-2026)
8.3 Middle East & Africa Heavy Load Ball Screw 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 Heavy Load Ball Screw
10.3 Manufacturing Process Analysis of Heavy Load Ball Screw
10.4 Industry Chain Structure of Heavy Load Ball Screw

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 Heavy Load Ball Screw Distributors
11.3 Heavy Load Ball Screw Customer

12 WORLD FORECAST REVIEW FOR HEAVY LOAD BALL SCREW BY GEOGRAPHIC REGION

12.1 Global Heavy Load Ball Screw Market Size Forecast by Region
  12.1.1 Global Heavy Load Ball Screw Forecast by Region (2027-2032)

+357 96 030922
info@marketpublishers.com

12.1.2 Global Heavy Load Ball Screw 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 Heavy Load Ball Screw Forecast by Type (2027-2032)
12.7 Global Heavy Load Ball Screw Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 NSK
13.1.1 NSK Company Information
13.1.2 NSK Heavy Load Ball Screw Product Portfolios and Specifications
13.1.3 NSK Heavy Load Ball Screw Sales, Revenue, Price and Gross Margin (2021-2026)
13.1.4 NSK Main Business Overview
13.1.5 NSK Latest Developments
13.2 THK
13.2.1 THK Company Information
13.2.2 THK Heavy Load Ball Screw Product Portfolios and Specifications
13.2.3 THK Heavy Load Ball Screw Sales, Revenue, Price and Gross Margin (2021-2026)
13.2.4 THK Main Business Overview
13.2.5 THK Latest Developments
13.3 Ewellix
13.3.1 Ewellix Company Information
13.3.2 Ewellix Heavy Load Ball Screw Product Portfolios and Specifications
13.3.3 Ewellix Heavy Load Ball Screw Sales, Revenue, Price and Gross Margin (2021-2026)
13.3.4 Ewellix Main Business Overview
13.3.5 Ewellix Latest Developments
13.4 Schaeffler
13.4.1 Schaeffler Company Information
13.4.2 Schaeffler Heavy Load Ball Screw Product Portfolios and Specifications
13.4.3 Schaeffler Heavy Load Ball Screw Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 Schaeffler Main Business Overview
13.4.5 Schaeffler Latest Developments

+357 96 030922
info@marketpublishers.com

13.5 PMI GROUP
13.5.1 PMI GROUP Company Information
13.5.2 PMI GROUP Heavy Load Ball Screw Product Portfolios and Specifications
13.5.3 PMI GROUP Heavy Load Ball Screw Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 PMI GROUP Main Business Overview
13.5.5 PMI GROUP Latest Developments
13.6 Hiwin Corporation
13.6.1 Hiwin Corporation Company Information
13.6.2 Hiwin Corporation Heavy Load Ball Screw Product Portfolios and Specifications
13.6.3 Hiwin Corporation Heavy Load Ball Screw Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 Hiwin Corporation Main Business Overview
13.6.5 Hiwin Corporation Latest Developments
13.7 Bosch Rexroth Corporation
13.7.1 Bosch Rexroth Corporation Company Information
13.7.2 Bosch Rexroth Corporation Heavy Load Ball Screw Product Portfolios and Specifications
13.7.3 Bosch Rexroth Corporation Heavy Load Ball Screw Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 Bosch Rexroth Corporation Main Business Overview
13.7.5 Bosch Rexroth Corporation Latest Developments
13.8 Altra Industrial Motion (Thomson)
13.8.1 Altra Industrial Motion (Thomson) Company Information
13.8.2 Altra Industrial Motion (Thomson) Heavy Load Ball Screw Product Portfolios and Specifications
13.8.3 Altra Industrial Motion (Thomson) Heavy Load Ball Screw Sales, Revenue, Price and Gross Margin (2021-2026)
13.8.4 Altra Industrial Motion (Thomson) Main Business Overview
13.8.5 Altra Industrial Motion (Thomson) Latest Developments
13.9 KSS
13.9.1 KSS Company Information
13.9.2 KSS Heavy Load Ball Screw Product Portfolios and Specifications
13.9.3 KSS Heavy Load Ball Screw Sales, Revenue, Price and Gross Margin (2021-2026)
13.9.4 KSS Main Business Overview
13.9.5 KSS Latest Developments
13.10 Dai-ichi Sokuhan Works Co.
13.10.1 Dai-ichi Sokuhan Works Co. Company Information

+357 96 030922
info@marketpublishers.com

13.10.2 Dai-ichi Sokuhan Works Co. Heavy Load Ball Screw Product Portfolios and Specifications
13.10.3 Dai-ichi Sokuhan Works Co. Heavy Load Ball Screw Sales, Revenue, Price and Gross Margin (2021-2026)
13.10.4 Dai-ichi Sokuhan Works Co. Main Business Overview
13.10.5 Dai-ichi Sokuhan Works Co. Latest Developments
13.11 I+F Antriebs- und Maschinentechnik GmbH
13.11.1 I+F Antriebs- und Maschinentechnik GmbH Company Information
13.11.2 I+F Antriebs- und Maschinentechnik GmbH Heavy Load Ball Screw Product Portfolios and Specifications
13.11.3 I+F Antriebs- und Maschinentechnik GmbH Heavy Load Ball Screw Sales, Revenue, Price and Gross Margin (2021-2026)
13.11.4 I+F Antriebs- und Maschinentechnik GmbH Main Business Overview
13.11.5 I+F Antriebs- und Maschinentechnik GmbH Latest Developments
13.12 August Steinmeyer GmbH & Co. KG
13.12.1 August Steinmeyer GmbH & Co. KG Company Information
13.12.2 August Steinmeyer GmbH & Co. KG Heavy Load Ball Screw Product Portfolios and Specifications
13.12.3 August Steinmeyer GmbH & Co. KG Heavy Load Ball Screw Sales, Revenue, Price and Gross Margin (2021-2026)
13.12.4 August Steinmeyer GmbH & Co. KG Main Business Overview
13.12.5 August Steinmeyer GmbH & Co. KG Latest Developments
13.13 Tsubaki Nakashima
13.13.1 Tsubaki Nakashima Company Information
13.13.2 Tsubaki Nakashima Heavy Load Ball Screw Product Portfolios and Specifications
13.13.3 Tsubaki Nakashima Heavy Load Ball Screw Sales, Revenue, Price and Gross Margin (2021-2026)
13.13.4 Tsubaki Nakashima Main Business Overview
13.13.5 Tsubaki Nakashima Latest Developments
13.14 Nidec Sankyo
13.14.1 Nidec Sankyo Company Information
13.14.2 Nidec Sankyo Heavy Load Ball Screw Product Portfolios and Specifications
13.14.3 Nidec Sankyo Heavy Load Ball Screw Sales, Revenue, Price and Gross Margin (2021-2026)
13.14.4 Nidec Sankyo Main Business Overview
13.14.5 Nidec Sankyo Latest Developments
13.15 KURODA Precision
13.15.1 KURODA Precision Company Information

+357 96 030922
info@marketpublishers.com

13.15.2 KURODA Precision Heavy Load Ball Screw Product Portfolios and Specifications
13.15.3 KURODA Precision Heavy Load Ball Screw Sales, Revenue, Price and Gross Margin (2021-2026)
13.15.4 KURODA Precision Main Business Overview
13.15.5 KURODA Precision Latest Developments
13.16 TBI Motion
13.16.1 TBI Motion Company Information
13.16.2 TBI Motion Heavy Load Ball Screw Product Portfolios and Specifications
13.16.3 TBI Motion Heavy Load Ball Screw Sales, Revenue, Price and Gross Margin (2021-2026)
13.16.4 TBI Motion Main Business Overview
13.16.5 TBI Motion Latest Developments
13.17 HIPP
13.17.1 HIPP Company Information
13.17.2 HIPP Heavy Load Ball Screw Product Portfolios and Specifications
13.17.3 HIPP Heavy Load Ball Screw Sales, Revenue, Price and Gross Margin (2021-2026)
13.17.4 HIPP Main Business Overview
13.17.5 HIPP Latest Developments
13.18 OME Technology Co., Ltd. (STAF)
13.18.1 OME Technology Co., Ltd. (STAF) Company Information
13.18.2 OME Technology Co., Ltd. (STAF) Heavy Load Ball Screw Product Portfolios and Specifications
13.18.3 OME Technology Co., Ltd. (STAF) Heavy Load Ball Screw Sales, Revenue, Price and Gross Margin (2021-2026)
13.18.4 OME Technology Co., Ltd. (STAF) Main Business Overview
13.18.5 OME Technology Co., Ltd. (STAF) Latest Developments
13.19 Nanjing Technical Equipment Manufacture Co., Ltd.
13.19.1 Nanjing Technical Equipment Manufacture Co., Ltd. Company Information
13.19.2 Nanjing Technical Equipment Manufacture Co., Ltd. Heavy Load Ball Screw Product Portfolios and Specifications
13.19.3 Nanjing Technical Equipment Manufacture Co., Ltd. Heavy Load Ball Screw Sales, Revenue, Price and Gross Margin (2021-2026)
13.19.4 Nanjing Technical Equipment Manufacture Co., Ltd. Main Business Overview
13.19.5 Nanjing Technical Equipment Manufacture Co., Ltd. Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

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info@marketpublishers.com

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info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Heavy Load Ball Screw Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. Heavy Load Ball Screw Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Internal Circulation Ball Screw
Table 4. Major Players of External Circulation Ball Screw
Table 5. Global Heavy Load Ball Screw Sales by Type (2021-2026) & (K Units)
Table 6. Global Heavy Load Ball Screw Sales Market Share by Type (2021-2026)
Table 7. Global Heavy Load Ball Screw Revenue by Type (2021-2026) & ($ million)
Table 8. Global Heavy Load Ball Screw Revenue Market Share by Type (2021-2026)
Table 9. Global Heavy Load Ball Screw Sale Price by Type (2021-2026) & (US$/Unit)
Table 10. Global Heavy Load Ball Screw Sale by Application (2021-2026) & (K Units)
Table 11. Global Heavy Load Ball Screw Sale Market Share by Application (2021-2026)
Table 12. Global Heavy Load Ball Screw Revenue by Application (2021-2026) & ($ million)
Table 13. Global Heavy Load Ball Screw Revenue Market Share by Application (2021-2026)
Table 14. Global Heavy Load Ball Screw Sale Price by Application (2021-2026) & (US$/Unit)
Table 15. Global Heavy Load Ball Screw Sales by Company (2021-2026) & (K Units)
Table 16. Global Heavy Load Ball Screw Sales Market Share by Company (2021-2026)
Table 17. Global Heavy Load Ball Screw Revenue by Company (2021-2026) & ($ millions)
Table 18. Global Heavy Load Ball Screw Revenue Market Share by Company (2021-2026)
Table 19. Global Heavy Load Ball Screw Sale Price by Company (2021-2026) & (US$/Unit)
Table 20. Key Manufacturers Heavy Load Ball Screw Producing Area Distribution and Sales Area
Table 21. Players Heavy Load Ball Screw Products Offered
Table 22. Heavy Load Ball Screw Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 23. New Products and Potential Entrants
Table 24. Market M&A Activity & Strategy
Table 25. Global Heavy Load Ball Screw Sales by Geographic Region (2021-2026) & (K

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Units)
Table 26. Global Heavy Load Ball Screw Sales Market Share Geographic Region (2021-2026)
Table 27. Global Heavy Load Ball Screw Revenue by Geographic Region (2021-2026) & ($ millions)
Table 28. Global Heavy Load Ball Screw Revenue Market Share by Geographic Region (2021-2026)
Table 29. Global Heavy Load Ball Screw Sales by Country/Region (2021-2026) & (K Units)
Table 30. Global Heavy Load Ball Screw Sales Market Share by Country/Region (2021-2026)
Table 31. Global Heavy Load Ball Screw Revenue by Country/Region (2021-2026) & ($ millions)
Table 32. Global Heavy Load Ball Screw Revenue Market Share by Country/Region (2021-2026)
Table 33. Americas Heavy Load Ball Screw Sales by Country (2021-2026) & (K Units)
Table 34. Americas Heavy Load Ball Screw Sales Market Share by Country (2021-2026)
Table 35. Americas Heavy Load Ball Screw Revenue by Country (2021-2026) & ($ millions)
Table 36. Americas Heavy Load Ball Screw Sales by Type (2021-2026) & (K Units)
Table 37. Americas Heavy Load Ball Screw Sales by Application (2021-2026) & (K Units)
Table 38. APAC Heavy Load Ball Screw Sales by Region (2021-2026) & (K Units)
Table 39. APAC Heavy Load Ball Screw Sales Market Share by Region (2021-2026)
Table 40. APAC Heavy Load Ball Screw Revenue by Region (2021-2026) & ($ millions)
Table 41. APAC Heavy Load Ball Screw Sales by Type (2021-2026) & (K Units)
Table 42. APAC Heavy Load Ball Screw Sales by Application (2021-2026) & (K Units)
Table 43. Europe Heavy Load Ball Screw Sales by Country (2021-2026) & (K Units)
Table 44. Europe Heavy Load Ball Screw Revenue by Country (2021-2026) & ($ millions)
Table 45. Europe Heavy Load Ball Screw Sales by Type (2021-2026) & (K Units)
Table 46. Europe Heavy Load Ball Screw Sales by Application (2021-2026) & (K Units)
Table 47. Middle East & Africa Heavy Load Ball Screw Sales by Country (2021-2026) & (K Units)
Table 48. Middle East & Africa Heavy Load Ball Screw Revenue Market Share by Country (2021-2026)
Table 49. Middle East & Africa Heavy Load Ball Screw Sales by Type (2021-2026) & (K Units)

+357 96 030922
info@marketpublishers.com

Table 50. Middle East & Africa Heavy Load Ball Screw Sales by Application (2021-2026) & (K Units)
Table 51. Key Market Drivers & Growth Opportunities of Heavy Load Ball Screw
Table 52. Key Market Challenges & Risks of Heavy Load Ball Screw
Table 53. Key Industry Trends of Heavy Load Ball Screw
Table 54. Heavy Load Ball Screw Raw Material
Table 55. Key Suppliers of Raw Materials
Table 56. Heavy Load Ball Screw Distributors List
Table 57. Heavy Load Ball Screw Customer List
Table 58. Global Heavy Load Ball Screw Sales Forecast by Region (2027-2032) & (K Units)
Table 59. Global Heavy Load Ball Screw Revenue Forecast by Region (2027-2032) & ($ millions)
Table 60. Americas Heavy Load Ball Screw Sales Forecast by Country (2027-2032) & (K Units)
Table 61. Americas Heavy Load Ball Screw Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 62. APAC Heavy Load Ball Screw Sales Forecast by Region (2027-2032) & (K Units)
Table 63. APAC Heavy Load Ball Screw Annual Revenue Forecast by Region (2027-2032) & ($ millions)
Table 64. Europe Heavy Load Ball Screw Sales Forecast by Country (2027-2032) & (K Units)
Table 65. Europe Heavy Load Ball Screw Revenue Forecast by Country (2027-2032) & ($ millions)
Table 66. Middle East & Africa Heavy Load Ball Screw Sales Forecast by Country (2027-2032) & (K Units)
Table 67. Middle East & Africa Heavy Load Ball Screw Revenue Forecast by Country (2027-2032) & ($ millions)
Table 68. Global Heavy Load Ball Screw Sales Forecast by Type (2027-2032) & (K Units)
Table 69. Global Heavy Load Ball Screw Revenue Forecast by Type (2027-2032) & ($ millions)
Table 70. Global Heavy Load Ball Screw Sales Forecast by Application (2027-2032) & (K Units)
Table 71. Global Heavy Load Ball Screw Revenue Forecast by Application (2027-2032) & ($ millions)
Table 72. NSK Basic Information, Heavy Load Ball Screw Manufacturing Base, Sales Area and Its Competitors

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Table 73. NSK Heavy Load Ball Screw Product Portfolios and Specifications
Table 74. NSK Heavy Load Ball Screw Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 75. NSK Main Business
Table 76. NSK Latest Developments
Table 77. THK Basic Information, Heavy Load Ball Screw Manufacturing Base, Sales Area and Its Competitors
Table 78. THK Heavy Load Ball Screw Product Portfolios and Specifications
Table 79. THK Heavy Load Ball Screw Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 80. THK Main Business
Table 81. THK Latest Developments
Table 82. Ewellix Basic Information, Heavy Load Ball Screw Manufacturing Base, Sales Area and Its Competitors
Table 83. Ewellix Heavy Load Ball Screw Product Portfolios and Specifications
Table 84. Ewellix Heavy Load Ball Screw Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 85. Ewellix Main Business
Table 86. Ewellix Latest Developments
Table 87. Schaeffler Basic Information, Heavy Load Ball Screw Manufacturing Base, Sales Area and Its Competitors
Table 88. Schaeffler Heavy Load Ball Screw Product Portfolios and Specifications
Table 89. Schaeffler Heavy Load Ball Screw Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 90. Schaeffler Main Business
Table 91. Schaeffler Latest Developments
Table 92. PMI GROUP Basic Information, Heavy Load Ball Screw Manufacturing Base, Sales Area and Its Competitors
Table 93. PMI GROUP Heavy Load Ball Screw Product Portfolios and Specifications
Table 94. PMI GROUP Heavy Load Ball Screw Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 95. PMI GROUP Main Business
Table 96. PMI GROUP Latest Developments
Table 97. Hiwin Corporation Basic Information, Heavy Load Ball Screw Manufacturing Base, Sales Area and Its Competitors
Table 98. Hiwin Corporation Heavy Load Ball Screw Product Portfolios and Specifications
Table 99. Hiwin Corporation Heavy Load Ball Screw Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)

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Table 100. Hiwin Corporation Main Business
Table 101. Hiwin Corporation Latest Developments
Table 102. Bosch Rexroth Corporation Basic Information, Heavy Load Ball Screw Manufacturing Base, Sales Area and Its Competitors
Table 103. Bosch Rexroth Corporation Heavy Load Ball Screw Product Portfolios and Specifications
Table 104. Bosch Rexroth Corporation Heavy Load Ball Screw Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 105. Bosch Rexroth Corporation Main Business
Table 106. Bosch Rexroth Corporation Latest Developments
Table 107. Altra Industrial Motion (Thomson) Basic Information, Heavy Load Ball Screw Manufacturing Base, Sales Area and Its Competitors
Table 108. Altra Industrial Motion (Thomson) Heavy Load Ball Screw Product Portfolios and Specifications
Table 109. Altra Industrial Motion (Thomson) Heavy Load Ball Screw Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 110. Altra Industrial Motion (Thomson) Main Business
Table 111. Altra Industrial Motion (Thomson) Latest Developments
Table 112. KSS Basic Information, Heavy Load Ball Screw Manufacturing Base, Sales Area and Its Competitors
Table 113. KSS Heavy Load Ball Screw Product Portfolios and Specifications
Table 114. KSS Heavy Load Ball Screw Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 115. KSS Main Business
Table 116. KSS Latest Developments
Table 117. Dai-ichi Sokuhan Works Co. Basic Information, Heavy Load Ball Screw Manufacturing Base, Sales Area and Its Competitors
Table 118. Dai-ichi Sokuhan Works Co. Heavy Load Ball Screw Product Portfolios and Specifications
Table 119. Dai-ichi Sokuhan Works Co. Heavy Load Ball Screw Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 120. Dai-ichi Sokuhan Works Co. Main Business
Table 121. Dai-ichi Sokuhan Works Co. Latest Developments
Table 122. I+F Antriebs- und Maschinentechnik GmbH Basic Information, Heavy Load Ball Screw Manufacturing Base, Sales Area and Its Competitors
Table 123. I+F Antriebs- und Maschinentechnik GmbH Heavy Load Ball Screw Product Portfolios and Specifications
Table 124. I+F Antriebs- und Maschinentechnik GmbH Heavy Load Ball Screw Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)

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Table 125. I+F Antriebs- und Maschinentechnik GmbH Main Business
Table 126. I+F Antriebs- und Maschinentechnik GmbH Latest Developments
Table 127. August Steinmeyer GmbH & Co. KG Basic Information, Heavy Load Ball Screw Manufacturing Base, Sales Area and Its Competitors
Table 128. August Steinmeyer GmbH & Co. KG Heavy Load Ball Screw Product Portfolios and Specifications
Table 129. August Steinmeyer GmbH & Co. KG Heavy Load Ball Screw Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 130. August Steinmeyer GmbH & Co. KG Main Business
Table 131. August Steinmeyer GmbH & Co. KG Latest Developments
Table 132. Tsubaki Nakashima Basic Information, Heavy Load Ball Screw Manufacturing Base, Sales Area and Its Competitors
Table 133. Tsubaki Nakashima Heavy Load Ball Screw Product Portfolios and Specifications
Table 134. Tsubaki Nakashima Heavy Load Ball Screw Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 135. Tsubaki Nakashima Main Business
Table 136. Tsubaki Nakashima Latest Developments
Table 137. Nidec Sankyo Basic Information, Heavy Load Ball Screw Manufacturing Base, Sales Area and Its Competitors
Table 138. Nidec Sankyo Heavy Load Ball Screw Product Portfolios and Specifications
Table 139. Nidec Sankyo Heavy Load Ball Screw Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 140. Nidec Sankyo Main Business
Table 141. Nidec Sankyo Latest Developments
Table 142. KURODA Precision Basic Information, Heavy Load Ball Screw Manufacturing Base, Sales Area and Its Competitors
Table 143. KURODA Precision Heavy Load Ball Screw Product Portfolios and Specifications
Table 144. KURODA Precision Heavy Load Ball Screw Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 145. KURODA Precision Main Business
Table 146. KURODA Precision Latest Developments
Table 147. TBI Motion Basic Information, Heavy Load Ball Screw Manufacturing Base, Sales Area and Its Competitors
Table 148. TBI Motion Heavy Load Ball Screw Product Portfolios and Specifications
Table 149. TBI Motion Heavy Load Ball Screw Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 150. TBI Motion Main Business

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Table 151. TBI Motion Latest Developments
Table 152. HIPP Basic Information, Heavy Load Ball Screw Manufacturing Base, Sales Area and Its Competitors
Table 153. HIPP Heavy Load Ball Screw Product Portfolios and Specifications
Table 154. HIPP Heavy Load Ball Screw Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 155. HIPP Main Business
Table 156. HIPP Latest Developments
Table 157. OME Technology Co., Ltd. (STAF) Basic Information, Heavy Load Ball Screw Manufacturing Base, Sales Area and Its Competitors
Table 158. OME Technology Co., Ltd. (STAF) Heavy Load Ball Screw Product Portfolios and Specifications
Table 159. OME Technology Co., Ltd. (STAF) Heavy Load Ball Screw Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 160. OME Technology Co., Ltd. (STAF) Main Business
Table 161. OME Technology Co., Ltd. (STAF) Latest Developments
Table 162. Nanjing Technical Equipment Manufacture Co., Ltd. Basic Information, Heavy Load Ball Screw Manufacturing Base, Sales Area and Its Competitors
Table 163. Nanjing Technical Equipment Manufacture Co., Ltd. Heavy Load Ball Screw Product Portfolios and Specifications
Table 164. Nanjing Technical Equipment Manufacture Co., Ltd. Heavy Load Ball Screw Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 165. Nanjing Technical Equipment Manufacture Co., Ltd. Main Business
Table 166. Nanjing Technical Equipment Manufacture Co., Ltd. Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Heavy Load Ball Screw
Figure 2. Heavy Load Ball Screw Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Heavy Load Ball Screw Sales Growth Rate 2021-2032 (K Units)
Figure 7. Global Heavy Load Ball Screw Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. Heavy Load Ball Screw Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. Heavy Load Ball Screw Sales Market Share by Country/Region (2025)
Figure 10. Heavy Load Ball Screw Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of Internal Circulation Ball Screw
Figure 12. Product Picture of External Circulation Ball Screw
Figure 13. Global Heavy Load Ball Screw Sales Market Share by Type in 2026
Figure 14. Global Heavy Load Ball Screw Revenue Market Share by Type (2021-2026)
Figure 15. Heavy Load Ball Screw Consumed in CNC Machine
Figure 16. Global Heavy Load Ball Screw Market: CNC Machine (2021-2026) & (K Units)
Figure 17. Heavy Load Ball Screw Consumed in Semiconductor Machinery
Figure 18. Global Heavy Load Ball Screw Market: Semiconductor Machinery (2021-2026) & (K Units)
Figure 19. Heavy Load Ball Screw Consumed in Measuring Instrument
Figure 20. Global Heavy Load Ball Screw Market: Measuring Instrument (2021-2026) & (K Units)
Figure 21. Heavy Load Ball Screw Consumed in Medical Instruments
Figure 22. Global Heavy Load Ball Screw Market: Medical Instruments (2021-2026) & (K Units)
Figure 23. Heavy Load Ball Screw Consumed in Aerospace
Figure 24. Global Heavy Load Ball Screw Market: Aerospace (2021-2026) & (K Units)
Figure 25. Heavy Load Ball Screw Consumed in Others
Figure 26. Global Heavy Load Ball Screw Market: Others (2021-2026) & (K Units)
Figure 27. Global Heavy Load Ball Screw Sale Market Share by Application (2025)
Figure 28. Global Heavy Load Ball Screw Revenue Market Share by Application in 2026
Figure 29. Heavy Load Ball Screw Sales by Company in 2026 (K Units)

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Figure 30. Global Heavy Load Ball Screw Sales Market Share by Company in 2026
Figure 31. Heavy Load Ball Screw Revenue by Company in 2026 ($ millions)
Figure 32. Global Heavy Load Ball Screw Revenue Market Share by Company in 2026
Figure 33. Global Heavy Load Ball Screw Sales Market Share by Geographic Region (2021-2026)
Figure 34. Global Heavy Load Ball Screw Revenue Market Share by Geographic Region in 2026
Figure 35. Americas Heavy Load Ball Screw Sales 2021-2026 (K Units)
Figure 36. Americas Heavy Load Ball Screw Revenue 2021-2026 ($ millions)
Figure 37. APAC Heavy Load Ball Screw Sales 2021-2026 (K Units)
Figure 38. APAC Heavy Load Ball Screw Revenue 2021-2026 ($ millions)
Figure 39. Europe Heavy Load Ball Screw Sales 2021-2026 (K Units)
Figure 40. Europe Heavy Load Ball Screw Revenue 2021-2026 ($ millions)
Figure 41. Middle East & Africa Heavy Load Ball Screw Sales 2021-2026 (K Units)
Figure 42. Middle East & Africa Heavy Load Ball Screw Revenue 2021-2026 ($ millions)
Figure 43. Americas Heavy Load Ball Screw Sales Market Share by Country in 2026
Figure 44. Americas Heavy Load Ball Screw Revenue Market Share by Country (2021-2026)
Figure 45. Americas Heavy Load Ball Screw Sales Market Share by Type (2021-2026)
Figure 46. Americas Heavy Load Ball Screw Sales Market Share by Application (2021-2026)
Figure 47. United States Heavy Load Ball Screw Revenue Growth 2021-2026 ($ millions)
Figure 48. Canada Heavy Load Ball Screw Revenue Growth 2021-2026 ($ millions)
Figure 49. Mexico Heavy Load Ball Screw Revenue Growth 2021-2026 ($ millions)
Figure 50. Brazil Heavy Load Ball Screw Revenue Growth 2021-2026 ($ millions)
Figure 51. APAC Heavy Load Ball Screw Sales Market Share by Region in 2026
Figure 52. APAC Heavy Load Ball Screw Revenue Market Share by Region (2021-2026)
Figure 53. APAC Heavy Load Ball Screw Sales Market Share by Type (2021-2026)
Figure 54. APAC Heavy Load Ball Screw Sales Market Share by Application (2021-2026)
Figure 55. China Heavy Load Ball Screw Revenue Growth 2021-2026 ($ millions)
Figure 56. Japan Heavy Load Ball Screw Revenue Growth 2021-2026 ($ millions)
Figure 57. South Korea Heavy Load Ball Screw Revenue Growth 2021-2026 ($ millions)
Figure 58. Southeast Asia Heavy Load Ball Screw Revenue Growth 2021-2026 ($ millions)
Figure 59. India Heavy Load Ball Screw Revenue Growth 2021-2026 ($ millions)
Figure 60. Australia Heavy Load Ball Screw Revenue Growth 2021-2026 ($ millions)

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Figure 61. China Taiwan Heavy Load Ball Screw Revenue Growth 2021-2026 ($ millions)
Figure 62. Europe Heavy Load Ball Screw Sales Market Share by Country in 2026
Figure 63. Europe Heavy Load Ball Screw Revenue Market Share by Country (2021-2026)
Figure 64. Europe Heavy Load Ball Screw Sales Market Share by Type (2021-2026)
Figure 65. Europe Heavy Load Ball Screw Sales Market Share by Application (2021-2026)
Figure 66. Germany Heavy Load Ball Screw Revenue Growth 2021-2026 ($ millions)
Figure 67. France Heavy Load Ball Screw Revenue Growth 2021-2026 ($ millions)
Figure 68. UK Heavy Load Ball Screw Revenue Growth 2021-2026 ($ millions)
Figure 69. Italy Heavy Load Ball Screw Revenue Growth 2021-2026 ($ millions)
Figure 70. Russia Heavy Load Ball Screw Revenue Growth 2021-2026 ($ millions)
Figure 71. Middle East & Africa Heavy Load Ball Screw Sales Market Share by Country (2021-2026)
Figure 72. Middle East & Africa Heavy Load Ball Screw Sales Market Share by Type (2021-2026)
Figure 73. Middle East & Africa Heavy Load Ball Screw Sales Market Share by Application (2021-2026)
Figure 74. Egypt Heavy Load Ball Screw Revenue Growth 2021-2026 ($ millions)
Figure 75. South Africa Heavy Load Ball Screw Revenue Growth 2021-2026 ($ millions)
Figure 76. Israel Heavy Load Ball Screw Revenue Growth 2021-2026 ($ millions)
Figure 77. Turkey Heavy Load Ball Screw Revenue Growth 2021-2026 ($ millions)
Figure 78. GCC Countries Heavy Load Ball Screw Revenue Growth 2021-2026 ($ millions)
Figure 79. Manufacturing Cost Structure Analysis of Heavy Load Ball Screw in 2026
Figure 80. Manufacturing Process Analysis of Heavy Load Ball Screw
Figure 81. Industry Chain Structure of Heavy Load Ball Screw
Figure 82. Channels of Distribution
Figure 83. Global Heavy Load Ball Screw Sales Market Forecast by Region (2027-2032)
Figure 84. Global Heavy Load Ball Screw Revenue Market Share Forecast by Region (2027-2032)
Figure 85. Global Heavy Load Ball Screw Sales Market Share Forecast by Type (2027-2032)
Figure 86. Global Heavy Load Ball Screw Revenue Market Share Forecast by Type (2027-2032)
Figure 87. Global Heavy Load Ball Screw Sales Market Share Forecast by Application (2027-2032)

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Figure 88. Global Heavy Load Ball Screw Revenue Market Share Forecast by Application (2027-2032)

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