

Global Lead Screw Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Lead Screw market size is expected to reach \$ 13691 million by 2032, rising at a market growth of 7.2% CAGR during the forecast period (2026-2032).

A Lead Screw is a mechanical linear actuator that converts rotational motion into linear motion through the interaction between a threaded screw shaft and a mating nut. It is widely used in positioning, lifting, and actuation systems due to its simplicity, self-locking capability, and cost-effectiveness. In 2025, global Lead Screw production reached approximately 194.11 M units, with an average global market price of around US\$ 42 per unit. Annual production capacity is 221.5 M units. Gross Profit Margin: 28%. The lead screw industry chain is structured around three core layers: upstream raw materials, midstream precision manufacturing, and downstream application integration. Upstream mainly includes steel, stainless steel, and engineering plastics, which are processed into high-precision bars and blanks. Midstream manufacturers perform CNC machining, thread forming (trapezoidal, ACME, square), heat treatment, and surface finishing to produce lead screws and nut assemblies. Downstream applications span industrial automation, medical devices, 3D printing, semiconductor equipment, and linear actuation systems, where lead screws function as a key motion conversion component. Lead screws represent a mature but structurally stable mechanical component industry, where growth is primarily driven by automation penetration rather than technological disruption. While they are being partially replaced in high-end applications by ball screws and linear motors, they remain dominant in cost-sensitive and mid-precision systems due to their simplicity, self-locking property, and low cost. The most attractive opportunity lies in integrated actuator modules and OEM customization, especially in emerging robotics and compact automation devices.

This report studies the global Lead Screw production, demand, key manufacturers, and

key regions.

This report is a detailed and comprehensive analysis of the world market for Lead Screw and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Lead Screw that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Lead Screw total production and demand, 2021-2032, (K Units)

Global Lead Screw total production value, 2021-2032, (USD Million)

Global Lead Screw production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Lead Screw consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Lead Screw domestic production, consumption, key domestic manufacturers and share

Global Lead Screw production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Lead Screw production by Product Form, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Lead Screw production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Lead Screw market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Thk Co., Ltd, Nsk Ltd, Bosch Rexroth Ag, Hiwin Technologies, Thomson Industries (Altra), Iko Nippon Thompson, Schaeffler Group, Tbi Motion, Pmi Group, Schneeberger Ag Linear Technology, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Lead Screw market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Product Form, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Lead Screw Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Lead Screw Market, Segmentation by Product Form:

Lead Screw Shaft

Screw + Nut Assembly

Linear Actuator

Custom Lead Screw

Global Lead Screw Market, Segmentation by Diameter + Lead:

Miniature: ? 8 mm

Small Diameter: 8?16 mm

Medium Diameter :16?40 mm

Large Diameter :? 40 mm

Global Lead Screw Market, Segmentation by Accuracy Grade:

Standard Grade

Precision Grade

High Precision Grade

Global Lead Screw Market, Segmentation by Application:

Industrial

Medical

Commercial

Others

Companies Profiled:

Thk Co., Ltd

Nsk Ltd

Bosch Rexroth Ag

Hiwin Technologies

Thomson Industries (Altra)

Iko Nippon Thompson

Schaeffler Group

Tbi Motion

Pmi Group

Schneeberger Ag Linear Technology

Dongguan Kaidi Precision Machinery

Dongguan Hanjiang Precision

Shenzhen Yixin Precision

Zhejiang Mech Linear Motion

HepcoMotion

Igus Gmbh

Kollmorgen

Altra Industrial Motion Corp

Kuroda Precision

Misumi Group

Key Questions Answered:

1. How big is the global Lead Screw market?
2. What is the demand of the global Lead Screw market?
3. What is the year over year growth of the global Lead Screw market?
4. What is the production and production value of the global Lead Screw market?
5. Who are the key producers in the global Lead Screw market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Lead Screw Introduction
- 1.2 World Lead Screw Supply & Forecast
 - 1.2.1 World Lead Screw Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Lead Screw Production (2021-2032)
 - 1.2.3 World Lead Screw Pricing Trends (2021-2032)
- 1.3 World Lead Screw Production by Region (Based on Production Site)
 - 1.3.1 World Lead Screw Production Value by Region (2021-2032)
 - 1.3.2 World Lead Screw Production by Region (2021-2032)
 - 1.3.3 World Lead Screw Average Price by Region (2021-2032)
 - 1.3.4 North America Lead Screw Production (2021-2032)
 - 1.3.5 Europe Lead Screw Production (2021-2032)
 - 1.3.6 China Lead Screw Production (2021-2032)
 - 1.3.7 Japan Lead Screw Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Lead Screw Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Lead Screw Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Lead Screw Demand (2021-2032)
- 2.2 World Lead Screw Consumption by Region
 - 2.2.1 World Lead Screw Consumption by Region (2021-2026)
 - 2.2.2 World Lead Screw Consumption Forecast by Region (2027-2032)
- 2.3 United States Lead Screw Consumption (2021-2032)
- 2.4 China Lead Screw Consumption (2021-2032)
- 2.5 Europe Lead Screw Consumption (2021-2032)
- 2.6 Japan Lead Screw Consumption (2021-2032)
- 2.7 South Korea Lead Screw Consumption (2021-2032)
- 2.8 ASEAN Lead Screw Consumption (2021-2032)
- 2.9 India Lead Screw Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Lead Screw Production Value by Manufacturer (2021-2026)

- 3.2 World Lead Screw Production by Manufacturer (2021-2026)
- 3.3 World Lead Screw Average Price by Manufacturer (2021-2026)
- 3.4 Lead Screw Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Lead Screw Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Lead Screw in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Lead Screw in 2025
- 3.6 Lead Screw Market: Overall Company Footprint Analysis
 - 3.6.1 Lead Screw Market: Region Footprint
 - 3.6.2 Lead Screw Market: Company Product Type Footprint
 - 3.6.3 Lead Screw Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Lead Screw Production Value Comparison
 - 4.1.1 United States VS China: Lead Screw Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Lead Screw Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Lead Screw Production Comparison
 - 4.2.1 United States VS China: Lead Screw Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Lead Screw Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Lead Screw Consumption Comparison
 - 4.3.1 United States VS China: Lead Screw Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Lead Screw Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Lead Screw Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Lead Screw Manufacturers, Headquarters and Production Site (States, Country)
 - 4.4.2 United States Based Manufacturers Lead Screw Production Value (2021-2026)

- 4.4.3 United States Based Manufacturers Lead Screw Production (2021-2026)
- 4.5 China Based Lead Screw Manufacturers and Market Share
 - 4.5.1 China Based Lead Screw Manufacturers, Headquarters and Production Site (Province, Country)
 - 4.5.2 China Based Manufacturers Lead Screw Production Value (2021-2026)
 - 4.5.3 China Based Manufacturers Lead Screw Production (2021-2026)
- 4.6 Rest of World Based Lead Screw Manufacturers and Market Share, 2021-2026
 - 4.6.1 Rest of World Based Lead Screw Manufacturers, Headquarters and Production Site (State, Country)
 - 4.6.2 Rest of World Based Manufacturers Lead Screw Production Value (2021-2026)
 - 4.6.3 Rest of World Based Manufacturers Lead Screw Production (2021-2026)

5 MARKET ANALYSIS BY PRODUCT FORM

- 5.1 World Lead Screw Market Size Overview by Product Form: 2021 VS 2025 VS 2032
- 5.2 Segment Introduction by Product Form
 - 5.2.1 Lead Screw Shaft
 - 5.2.2 Screw + Nut Assembly
 - 5.2.3 Linear Actuator
 - 5.2.4 Custom Lead Screw
- 5.3 Market Segment by Product Form
 - 5.3.1 World Lead Screw Production by Product Form (2021-2032)
 - 5.3.2 World Lead Screw Production Value by Product Form (2021-2032)
 - 5.3.3 World Lead Screw Average Price by Product Form (2021-2032)

6 MARKET ANALYSIS BY DIAMETER + LEAD

- 6.1 World Lead Screw Market Size Overview by Diameter + Lead: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Diameter + Lead
 - 6.2.1 Miniature: ? 8 mm
 - 6.2.2 Small Diameter: 8?16 mm
 - 6.2.3 Medium Diameter :16?40 mm
 - 6.2.4 Large Diameter :? 40 mm
- 6.3 Market Segment by Diameter + Lead
 - 6.3.1 World Lead Screw Production by Diameter + Lead (2021-2032)
 - 6.3.2 World Lead Screw Production Value by Diameter + Lead (2021-2032)
 - 6.3.3 World Lead Screw Average Price by Diameter + Lead (2021-2032)

7 MARKET ANALYSIS BY ACCURACY GRADE

7.1 World Lead Screw Market Size Overview by Accuracy Grade: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Accuracy Grade

7.2.1 Standard Grade

7.2.2 Precision Grade

7.2.3 High Precision Grade

7.3 Market Segment by Accuracy Grade

7.3.1 World Lead Screw Production by Accuracy Grade (2021-2032)

7.3.2 World Lead Screw Production Value by Accuracy Grade (2021-2032)

7.3.3 World Lead Screw Average Price by Accuracy Grade (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Lead Screw Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Industrial

8.2.2 Medical

8.2.3 Commercial

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Lead Screw Production by Application (2021-2032)

8.3.2 World Lead Screw Production Value by Application (2021-2032)

8.3.3 World Lead Screw Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Thk Co., Ltd

9.1.1 Thk Co., Ltd Details

9.1.2 Thk Co., Ltd Major Business

9.1.3 Thk Co., Ltd Lead Screw Product and Services

9.1.4 Thk Co., Ltd Lead Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Thk Co., Ltd Recent Developments/Updates

9.1.6 Thk Co., Ltd Competitive Strengths & Weaknesses

9.2 Nsk Ltd

9.2.1 Nsk Ltd Details

9.2.2 Nsk Ltd Major Business

- 9.2.3 Nsk Ltd Lead Screw Product and Services
- 9.2.4 Nsk Ltd Lead Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 Nsk Ltd Recent Developments/Updates
- 9.2.6 Nsk Ltd Competitive Strengths & Weaknesses
- 9.3 Bosch Rexroth Ag
 - 9.3.1 Bosch Rexroth Ag Details
 - 9.3.2 Bosch Rexroth Ag Major Business
 - 9.3.3 Bosch Rexroth Ag Lead Screw Product and Services
 - 9.3.4 Bosch Rexroth Ag Lead Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Bosch Rexroth Ag Recent Developments/Updates
 - 9.3.6 Bosch Rexroth Ag Competitive Strengths & Weaknesses
- 9.4 Hiwin Technologies
 - 9.4.1 Hiwin Technologies Details
 - 9.4.2 Hiwin Technologies Major Business
 - 9.4.3 Hiwin Technologies Lead Screw Product and Services
 - 9.4.4 Hiwin Technologies Lead Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Hiwin Technologies Recent Developments/Updates
 - 9.4.6 Hiwin Technologies Competitive Strengths & Weaknesses
- 9.5 Thomson Industries (Altra)
 - 9.5.1 Thomson Industries (Altra) Details
 - 9.5.2 Thomson Industries (Altra) Major Business
 - 9.5.3 Thomson Industries (Altra) Lead Screw Product and Services
 - 9.5.4 Thomson Industries (Altra) Lead Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Thomson Industries (Altra) Recent Developments/Updates
 - 9.5.6 Thomson Industries (Altra) Competitive Strengths & Weaknesses
- 9.6 Iko Nippon Thompson
 - 9.6.1 Iko Nippon Thompson Details
 - 9.6.2 Iko Nippon Thompson Major Business
 - 9.6.3 Iko Nippon Thompson Lead Screw Product and Services
 - 9.6.4 Iko Nippon Thompson Lead Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Iko Nippon Thompson Recent Developments/Updates
 - 9.6.6 Iko Nippon Thompson Competitive Strengths & Weaknesses
- 9.7 Schaeffler Group
 - 9.7.1 Schaeffler Group Details

- 9.7.2 Schaeffler Group Major Business
- 9.7.3 Schaeffler Group Lead Screw Product and Services
- 9.7.4 Schaeffler Group Lead Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.7.5 Schaeffler Group Recent Developments/Updates
- 9.7.6 Schaeffler Group Competitive Strengths & Weaknesses
- 9.8 Tbi Motion
 - 9.8.1 Tbi Motion Details
 - 9.8.2 Tbi Motion Major Business
 - 9.8.3 Tbi Motion Lead Screw Product and Services
 - 9.8.4 Tbi Motion Lead Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Tbi Motion Recent Developments/Updates
 - 9.8.6 Tbi Motion Competitive Strengths & Weaknesses
- 9.9 Pmi Group
 - 9.9.1 Pmi Group Details
 - 9.9.2 Pmi Group Major Business
 - 9.9.3 Pmi Group Lead Screw Product and Services
 - 9.9.4 Pmi Group Lead Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Pmi Group Recent Developments/Updates
 - 9.9.6 Pmi Group Competitive Strengths & Weaknesses
- 9.10 Schneeberger Ag Linear Technology
 - 9.10.1 Schneeberger Ag Linear Technology Details
 - 9.10.2 Schneeberger Ag Linear Technology Major Business
 - 9.10.3 Schneeberger Ag Linear Technology Lead Screw Product and Services
 - 9.10.4 Schneeberger Ag Linear Technology Lead Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Schneeberger Ag Linear Technology Recent Developments/Updates
 - 9.10.6 Schneeberger Ag Linear Technology Competitive Strengths & Weaknesses
- 9.11 Dongguan Kaidi Precision Machinery
 - 9.11.1 Dongguan Kaidi Precision Machinery Details
 - 9.11.2 Dongguan Kaidi Precision Machinery Major Business
 - 9.11.3 Dongguan Kaidi Precision Machinery Lead Screw Product and Services
 - 9.11.4 Dongguan Kaidi Precision Machinery Lead Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Dongguan Kaidi Precision Machinery Recent Developments/Updates
 - 9.11.6 Dongguan Kaidi Precision Machinery Competitive Strengths & Weaknesses
- 9.12 Dongguan Hanjiang Precision

- 9.12.1 Dongguan Hanjiang Precision Details
- 9.12.2 Dongguan Hanjiang Precision Major Business
- 9.12.3 Dongguan Hanjiang Precision Lead Screw Product and Services
- 9.12.4 Dongguan Hanjiang Precision Lead Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.12.5 Dongguan Hanjiang Precision Recent Developments/Updates
- 9.12.6 Dongguan Hanjiang Precision Competitive Strengths & Weaknesses
- 9.13 Shenzhen Yixin Precision
- 9.13.1 Shenzhen Yixin Precision Details
- 9.13.2 Shenzhen Yixin Precision Major Business
- 9.13.3 Shenzhen Yixin Precision Lead Screw Product and Services
- 9.13.4 Shenzhen Yixin Precision Lead Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.13.5 Shenzhen Yixin Precision Recent Developments/Updates
- 9.13.6 Shenzhen Yixin Precision Competitive Strengths & Weaknesses
- 9.14 Zhejiang Mech Linear Motion
- 9.14.1 Zhejiang Mech Linear Motion Details
- 9.14.2 Zhejiang Mech Linear Motion Major Business
- 9.14.3 Zhejiang Mech Linear Motion Lead Screw Product and Services
- 9.14.4 Zhejiang Mech Linear Motion Lead Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.14.5 Zhejiang Mech Linear Motion Recent Developments/Updates
- 9.14.6 Zhejiang Mech Linear Motion Competitive Strengths & Weaknesses
- 9.15 HepcoMotion
- 9.15.1 HepcoMotion Details
- 9.15.2 HepcoMotion Major Business
- 9.15.3 HepcoMotion Lead Screw Product and Services
- 9.15.4 HepcoMotion Lead Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.15.5 HepcoMotion Recent Developments/Updates
- 9.15.6 HepcoMotion Competitive Strengths & Weaknesses
- 9.16 Igus Gmbh
- 9.16.1 Igus Gmbh Details
- 9.16.2 Igus Gmbh Major Business
- 9.16.3 Igus Gmbh Lead Screw Product and Services
- 9.16.4 Igus Gmbh Lead Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.16.5 Igus Gmbh Recent Developments/Updates
- 9.16.6 Igus Gmbh Competitive Strengths & Weaknesses

9.17 Kollmorgen

9.17.1 Kollmorgen Details

9.17.2 Kollmorgen Major Business

9.17.3 Kollmorgen Lead Screw Product and Services

9.17.4 Kollmorgen Lead Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 Kollmorgen Recent Developments/Updates

9.17.6 Kollmorgen Competitive Strengths & Weaknesses

9.18 Altra Industrial Motion Corp

9.18.1 Altra Industrial Motion Corp Details

9.18.2 Altra Industrial Motion Corp Major Business

9.18.3 Altra Industrial Motion Corp Lead Screw Product and Services

9.18.4 Altra Industrial Motion Corp Lead Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.18.5 Altra Industrial Motion Corp Recent Developments/Updates

9.18.6 Altra Industrial Motion Corp Competitive Strengths & Weaknesses

9.19 Kuroda Precision

9.19.1 Kuroda Precision Details

9.19.2 Kuroda Precision Major Business

9.19.3 Kuroda Precision Lead Screw Product and Services

9.19.4 Kuroda Precision Lead Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.19.5 Kuroda Precision Recent Developments/Updates

9.19.6 Kuroda Precision Competitive Strengths & Weaknesses

9.20 Misumi Group

9.20.1 Misumi Group Details

9.20.2 Misumi Group Major Business

9.20.3 Misumi Group Lead Screw Product and Services

9.20.4 Misumi Group Lead Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.20.5 Misumi Group Recent Developments/Updates

9.20.6 Misumi Group Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Lead Screw Industry Chain

10.2 Lead Screw Upstream Analysis

10.2.1 Lead Screw Core Raw Materials

10.2.2 Main Manufacturers of Lead Screw Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Lead Screw Production Mode

10.6 Lead Screw Procurement Model

10.7 Lead Screw Industry Sales Model and Sales Channels

10.7.1 Lead Screw Sales Model

10.7.2 Lead Screw Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World Lead Screw Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Lead Screw Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Lead Screw Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Lead Screw Production Value Market Share by Region (2021-2026)
- Table 5. World Lead Screw Production Value Market Share by Region (2027-2032)
- Table 6. World Lead Screw Production by Region (2021-2026) & (K Units)
- Table 7. World Lead Screw Production by Region (2027-2032) & (K Units)
- Table 8. World Lead Screw Production Market Share by Region (2021-2026)
- Table 9. World Lead Screw Production Market Share by Region (2027-2032)
- Table 10. World Lead Screw Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World Lead Screw Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. Lead Screw Major Market Trends
- Table 13. World Lead Screw Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World Lead Screw Consumption by Region (2021-2026) & (K Units)
- Table 15. World Lead Screw Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World Lead Screw Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Lead Screw Producers in 2025
- Table 18. World Lead Screw Production by Manufacturer (2021-2026) & (K Units)
- Table 19. Production Market Share of Key Lead Screw Producers in 2025
- Table 20. World Lead Screw Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 21. Global Lead Screw Company Evaluation Quadrant
- Table 22. World Lead Screw Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and Lead Screw Production Site of Key Manufacturer
- Table 24. Lead Screw Market: Company Product Type Footprint
- Table 25. Lead Screw Market: Company Product Application Footprint
- Table 26. Lead Screw Competitive Factors
- Table 27. Lead Screw New Entrant and Capacity Expansion Plans
- Table 28. Lead Screw Mergers & Acquisitions Activity
- Table 29. United States VS China Lead Screw Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
- Table 30. United States VS China Lead Screw Production Comparison, (2021 & 2025 &

2032) & (K Units)

Table 31. United States VS China Lead Screw Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Lead Screw Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Lead Screw Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Lead Screw Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Lead Screw Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Lead Screw Production Market Share (2021-2026)

Table 37. China Based Lead Screw Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Lead Screw Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Lead Screw Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Lead Screw Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Lead Screw Production Market Share (2021-2026)

Table 42. Rest of World Based Lead Screw Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Lead Screw Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Lead Screw Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Lead Screw Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Lead Screw Production Market Share (2021-2026)

Table 47. World Lead Screw Production Value by Product Form, (USD Million), 2021 & 2025 & 2032

Table 48. World Lead Screw Production by Product Form (2021-2026) & (K Units)

Table 49. World Lead Screw Production by Product Form (2027-2032) & (K Units)

Table 50. World Lead Screw Production Value by Product Form (2021-2026) & (USD Million)

Table 51. World Lead Screw Production Value by Product Form (2027-2032) & (USD

Million)

Table 52. World Lead Screw Average Price by Product Form (2021-2026) & (US\$/Unit)

Table 53. World Lead Screw Average Price by Product Form (2027-2032) & (US\$/Unit)

Table 54. World Lead Screw Production Value by Diameter + Lead, (USD Million), 2021 & 2025 & 2032

Table 55. World Lead Screw Production by Diameter + Lead (2021-2026) & (K Units)

Table 56. World Lead Screw Production by Diameter + Lead (2027-2032) & (K Units)

Table 57. World Lead Screw Production Value by Diameter + Lead (2021-2026) & (USD Million)

Table 58. World Lead Screw Production Value by Diameter + Lead (2027-2032) & (USD Million)

Table 59. World Lead Screw Average Price by Diameter + Lead (2021-2026) & (US\$/Unit)

Table 60. World Lead Screw Average Price by Diameter + Lead (2027-2032) & (US\$/Unit)

Table 61. World Lead Screw Production Value by Accuracy Grade, (USD Million), 2021 & 2025 & 2032

Table 62. World Lead Screw Production by Accuracy Grade (2021-2026) & (K Units)

Table 63. World Lead Screw Production by Accuracy Grade (2027-2032) & (K Units)

Table 64. World Lead Screw Production Value by Accuracy Grade (2021-2026) & (USD Million)

Table 65. World Lead Screw Production Value by Accuracy Grade (2027-2032) & (USD Million)

Table 66. World Lead Screw Average Price by Accuracy Grade (2021-2026) & (US\$/Unit)

Table 67. World Lead Screw Average Price by Accuracy Grade (2027-2032) & (US\$/Unit)

Table 68. World Lead Screw Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Lead Screw Production by Application (2021-2026) & (K Units)

Table 70. World Lead Screw Production by Application (2027-2032) & (K Units)

Table 71. World Lead Screw Production Value by Application (2021-2026) & (USD Million)

Table 72. World Lead Screw Production Value by Application (2027-2032) & (USD Million)

Table 73. World Lead Screw Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Lead Screw Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Thk Co., Ltd Basic Information, Manufacturing Base and Competitors

Table 76. Thk Co., Ltd Major Business

Table 77. Thk Co., Ltd Lead Screw Product and Services

Table 78. Thk Co., Ltd Lead Screw Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Thk Co., Ltd Recent Developments/Updates

Table 80. Thk Co., Ltd Competitive Strengths & Weaknesses

Table 81. Nsk Ltd Basic Information, Manufacturing Base and Competitors

Table 82. Nsk Ltd Major Business

Table 83. Nsk Ltd Lead Screw Product and Services

Table 84. Nsk Ltd Lead Screw Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Nsk Ltd Recent Developments/Updates

Table 86. Nsk Ltd Competitive Strengths & Weaknesses

Table 87. Bosch Rexroth Ag Basic Information, Manufacturing Base and Competitors

Table 88. Bosch Rexroth Ag Major Business

Table 89. Bosch Rexroth Ag Lead Screw Product and Services

Table 90. Bosch Rexroth Ag Lead Screw Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Bosch Rexroth Ag Recent Developments/Updates

Table 92. Bosch Rexroth Ag Competitive Strengths & Weaknesses

Table 93. Hiwin Technologies Basic Information, Manufacturing Base and Competitors

Table 94. Hiwin Technologies Major Business

Table 95. Hiwin Technologies Lead Screw Product and Services

Table 96. Hiwin Technologies Lead Screw Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Hiwin Technologies Recent Developments/Updates

Table 98. Hiwin Technologies Competitive Strengths & Weaknesses

Table 99. Thomson Industries (Altra) Basic Information, Manufacturing Base and Competitors

Table 100. Thomson Industries (Altra) Major Business

Table 101. Thomson Industries (Altra) Lead Screw Product and Services

Table 102. Thomson Industries (Altra) Lead Screw Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Thomson Industries (Altra) Recent Developments/Updates

Table 104. Thomson Industries (Altra) Competitive Strengths & Weaknesses

Table 105. Iko Nippon Thompson Basic Information, Manufacturing Base and Competitors

Table 106. Iko Nippon Thompson Major Business

Table 107. Iko Nippon Thompson Lead Screw Product and Services

Table 108. Iko Nippon Thompson Lead Screw Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Iko Nippon Thompson Recent Developments/Updates
Table 110. Iko Nippon Thompson Competitive Strengths & Weaknesses
Table 111. Schaeffler Group Basic Information, Manufacturing Base and Competitors
Table 112. Schaeffler Group Major Business
Table 113. Schaeffler Group Lead Screw Product and Services
Table 114. Schaeffler Group Lead Screw Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Schaeffler Group Recent Developments/Updates
Table 116. Schaeffler Group Competitive Strengths & Weaknesses
Table 117. Tbi Motion Basic Information, Manufacturing Base and Competitors
Table 118. Tbi Motion Major Business
Table 119. Tbi Motion Lead Screw Product and Services
Table 120. Tbi Motion Lead Screw Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Tbi Motion Recent Developments/Updates
Table 122. Tbi Motion Competitive Strengths & Weaknesses
Table 123. Pmi Group Basic Information, Manufacturing Base and Competitors
Table 124. Pmi Group Major Business
Table 125. Pmi Group Lead Screw Product and Services
Table 126. Pmi Group Lead Screw Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Pmi Group Recent Developments/Updates
Table 128. Pmi Group Competitive Strengths & Weaknesses
Table 129. Schneeberger Ag Linear Technology Basic Information, Manufacturing Base and Competitors
Table 130. Schneeberger Ag Linear Technology Major Business
Table 131. Schneeberger Ag Linear Technology Lead Screw Product and Services
Table 132. Schneeberger Ag Linear Technology Lead Screw Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. Schneeberger Ag Linear Technology Recent Developments/Updates
Table 134. Schneeberger Ag Linear Technology Competitive Strengths & Weaknesses
Table 135. Dongguan Kaidi Precision Machinery Basic Information, Manufacturing Base and Competitors
Table 136. Dongguan Kaidi Precision Machinery Major Business
Table 137. Dongguan Kaidi Precision Machinery Lead Screw Product and Services
Table 138. Dongguan Kaidi Precision Machinery Lead Screw Production (K Units),

Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Dongguan Kaidi Precision Machinery Recent Developments/Updates

Table 140. Dongguan Kaidi Precision Machinery Competitive Strengths & Weaknesses

Table 141. Dongguan Hanjiang Precision Basic Information, Manufacturing Base and Competitors

Table 142. Dongguan Hanjiang Precision Major Business

Table 143. Dongguan Hanjiang Precision Lead Screw Product and Services

Table 144. Dongguan Hanjiang Precision Lead Screw Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Dongguan Hanjiang Precision Recent Developments/Updates

Table 146. Dongguan Hanjiang Precision Competitive Strengths & Weaknesses

Table 147. Shenzhen Yixin Precision Basic Information, Manufacturing Base and Competitors

Table 148. Shenzhen Yixin Precision Major Business

Table 149. Shenzhen Yixin Precision Lead Screw Product and Services

Table 150. Shenzhen Yixin Precision Lead Screw Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Shenzhen Yixin Precision Recent Developments/Updates

Table 152. Shenzhen Yixin Precision Competitive Strengths & Weaknesses

Table 153. Zhejiang Mech Linear Motion Basic Information, Manufacturing Base and Competitors

Table 154. Zhejiang Mech Linear Motion Major Business

Table 155. Zhejiang Mech Linear Motion Lead Screw Product and Services

Table 156. Zhejiang Mech Linear Motion Lead Screw Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Zhejiang Mech Linear Motion Recent Developments/Updates

Table 158. Zhejiang Mech Linear Motion Competitive Strengths & Weaknesses

Table 159. HepcoMotion Basic Information, Manufacturing Base and Competitors

Table 160. HepcoMotion Major Business

Table 161. HepcoMotion Lead Screw Product and Services

Table 162. HepcoMotion Lead Screw Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. HepcoMotion Recent Developments/Updates

Table 164. HepcoMotion Competitive Strengths & Weaknesses

Table 165. Igus Gmbh Basic Information, Manufacturing Base and Competitors

Table 166. Igus Gmbh Major Business
Table 167. Igus Gmbh Lead Screw Product and Services
Table 168. Igus Gmbh Lead Screw Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 169. Igus Gmbh Recent Developments/Updates
Table 170. Igus Gmbh Competitive Strengths & Weaknesses
Table 171. Kollmorgen Basic Information, Manufacturing Base and Competitors
Table 172. Kollmorgen Major Business
Table 173. Kollmorgen Lead Screw Product and Services
Table 174. Kollmorgen Lead Screw Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 175. Kollmorgen Recent Developments/Updates
Table 176. Kollmorgen Competitive Strengths & Weaknesses
Table 177. Altra Industrial Motion Corp Basic Information, Manufacturing Base and Competitors
Table 178. Altra Industrial Motion Corp Major Business
Table 179. Altra Industrial Motion Corp Lead Screw Product and Services
Table 180. Altra Industrial Motion Corp Lead Screw Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 181. Altra Industrial Motion Corp Recent Developments/Updates
Table 182. Altra Industrial Motion Corp Competitive Strengths & Weaknesses
Table 183. Kuroda Precision Basic Information, Manufacturing Base and Competitors
Table 184. Kuroda Precision Major Business
Table 185. Kuroda Precision Lead Screw Product and Services
Table 186. Kuroda Precision Lead Screw Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 187. Kuroda Precision Recent Developments/Updates
Table 188. Kuroda Precision Competitive Strengths & Weaknesses
Table 189. Misumi Group Basic Information, Manufacturing Base and Competitors
Table 190. Misumi Group Major Business
Table 191. Misumi Group Lead Screw Product and Services
Table 192. Misumi Group Lead Screw Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 193. Misumi Group Recent Developments/Updates
Table 194. Misumi Group Competitive Strengths & Weaknesses
Table 195. Global Key Players of Lead Screw Upstream (Raw Materials)
Table 196. Global Lead Screw Typical Customers
Table 197. Lead Screw Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Lead Screw Picture

Figure 2. World Lead Screw Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Lead Screw Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Lead Screw Production (2021-2032) & (K Units)

Figure 5. World Lead Screw Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Lead Screw Production Value Market Share by Region (2021-2032)

Figure 7. World Lead Screw Production Market Share by Region (2021-2032)

Figure 8. North America Lead Screw Production (2021-2032) & (K Units)

Figure 9. Europe Lead Screw Production (2021-2032) & (K Units)

Figure 10. China Lead Screw Production (2021-2032) & (K Units)

Figure 11. Japan Lead Screw Production (2021-2032) & (K Units)

Figure 12. Lead Screw Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Lead Screw Consumption (2021-2032) & (K Units)

Figure 15. World Lead Screw Consumption Market Share by Region (2021-2032)

Figure 16. United States Lead Screw Consumption (2021-2032) & (K Units)

Figure 17. China Lead Screw Consumption (2021-2032) & (K Units)

Figure 18. Europe Lead Screw Consumption (2021-2032) & (K Units)

Figure 19. Japan Lead Screw Consumption (2021-2032) & (K Units)

Figure 20. South Korea Lead Screw Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Lead Screw Consumption (2021-2032) & (K Units)

Figure 22. India Lead Screw Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Lead Screw by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Lead Screw Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Lead Screw Markets in 2025

Figure 26. United States VS China: Lead Screw Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Lead Screw Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Lead Screw Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Lead Screw Production Market Share 2025

Figure 30. China Based Manufacturers Lead Screw Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Lead Screw Production Market Share 2025

Figure 32. World Lead Screw Production Value by Product Form, (USD Million), 2021 & 2025 & 2032

Figure 33. World Lead Screw Production Value Market Share by Product Form in 2025

Figure 34. Lead Screw Shaft

Figure 35. Screw + Nut Assembly

Figure 36. Linear Actuator

Figure 37. Custom Lead Screw

Figure 38. World Lead Screw Production Market Share by Product Form (2021-2032)

Figure 39. World Lead Screw Production Value Market Share by Product Form (2021-2032)

Figure 40. World Lead Screw Average Price by Product Form (2021-2032) & (US\$/Unit)

Figure 41. World Lead Screw Production Value by Diameter + Lead, (USD Million), 2021 & 2025 & 2032

Figure 42. World Lead Screw Production Value Market Share by Diameter + Lead in 2025

Figure 43. Miniature: ? 8 mm

Figure 44. Small Diameter: 8?16 mm

Figure 45. Medium Diameter :16?40 mm

Figure 46. Large Diameter :? 40 mm

Figure 47. World Lead Screw Production Market Share by Diameter + Lead (2021-2032)

Figure 48. World Lead Screw Production Value Market Share by Diameter + Lead (2021-2032)

Figure 49. World Lead Screw Average Price by Diameter + Lead (2021-2032) & (US\$/Unit)

Figure 50. World Lead Screw Production Value by Accuracy Grade, (USD Million), 2021 & 2025 & 2032

Figure 51. World Lead Screw Production Value Market Share by Accuracy Grade in 2025

Figure 52. Standard Grade

Figure 53. Precision Grade

Figure 54. High Precision Grade

Figure 55. World Lead Screw Production Market Share by Accuracy Grade (2021-2032)

Figure 56. World Lead Screw Production Value Market Share by Accuracy Grade (2021-2032)

Figure 57. World Lead Screw Average Price by Accuracy Grade (2021-2032) &

(US\$/Unit)

Figure 58. World Lead Screw Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 59. World Lead Screw Production Value Market Share by Application in 2025

Figure 60. Industrial

Figure 61. Medical

Figure 62. Commercial

Figure 63. Others

Figure 64. World Lead Screw Production Market Share by Application (2021-2032)

Figure 65. World Lead Screw Production Value Market Share by Application (2021-2032)

Figure 66. World Lead Screw Average Price by Application (2021-2032) & (US\$/Unit)

Figure 67. Lead Screw Industry Chain

Figure 68. Lead Screw Procurement Model

Figure 69. Lead Screw Sales Model

Figure 70. Lead Screw Sales Channels, Direct Sales, and Distribution

Figure 71. Methodology

Figure 72. Research Process and Data Source

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