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Global Internal Recirculation Miniature Ball Screw Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Internal Recirculation Miniature Ball Screw market size was valued at US$ 383 million in 2025 and is forecast to a readjusted size of US$ 587 million by 2032 with a CAGR of 6.4% during review period.

In 2025, the global market volume for internal-circulation miniature ball screws is approximately 3.24 million units, with an average price of around $113 per unit.

Internal-circulation miniature ball screws are precision linear transmission components that utilize built-in deflectors or internal circulation channels to enable balls to circulate along a short path between the screw shaft and the nut raceway, thereby achieving a miniaturized overall profile. Compared to external-circulation or tube-return designs, the internal-circulation configuration reduces the nut's outer diameter and axial length, facilitating integration into space-constrained precision mechanisms while offering high transmission efficiency, positioning accuracy, smooth motion, and low noise levels. These components generally refer to high-precision ball screws with an outer diameter of less than 16 mm; they efficiently convert rotary motion into precise linear motion—at the micron or even nanometer scale—through the rolling action of internal balls.

Miniature ball screws primarily consist of a threaded shaft (or screw), a threaded sleeve (or nut), balls, and a retainer. The threaded shaft and sleeve serve as the driving and driven components, respectively, while the balls act as the transmission elements, rolling between the shaft and sleeve to facilitate force transmission and relative motion. The retainer ensures the balls move correctly along the raceway.

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Key market drivers include the following:

The miniaturization of precision equipment drives demand for compact transmission components.

Semiconductor equipment, electronics manufacturing machinery, precision optical instruments, medical devices, and small-scale automation equipment are increasingly trending toward high integration, miniaturization, and modularity, resulting in further constraints on the installation space available for mechanical transmission mechanisms. By enabling ball recirculation within the nut, internal-circulation miniature ball screws eliminate the need for space-consuming external circulation structures while maintaining high transmission efficiency, positioning accuracy, and operational stability; they are well-suited for applications such as miniature Z-axes, lifting mechanisms, focusing units, inspection platforms, and precision pick-and-place units. As the number of precision motion axes within equipment increases and small-scale actuators are upgraded to higher-performance transmission solutions, the scope of application for internal-circulation miniature ball screws continues to expand. Upgrades in Semiconductor and High-End Automation Equipment Drive Demand for High Precision

Requirements for repeatability, motion smoothness, low backlash, and long-term reliability are steadily rising for semiconductor inspection and metrology, packaging and testing, wafer and chip handling, precision assembly, and automated production equipment. The performance limitations of conventional lead screws or sliding drive mechanisms in high-frequency, high-precision applications have become increasingly apparent, prompting equipment manufacturers to adopt more efficient rolling drive solutions. Internal-recirculation miniature ball screws—characterized by compact structures, rapid motion response, and low frictional loss—effectively meet the demands for short-stroke, high-frequency operation and precision positioning. Their performance and size advantages are particularly pronounced in auxiliary motion axes and compact actuation modules, making technological upgrades in high-end equipment a key driver of continued market expansion.

High Speed, Low Noise, and Supply Chain Localization Accelerate Product Penetration

As automation equipment cycle times shorten, miniature ball screws are evolving toward higher speeds, lower noise, reduced torque fluctuation, and extended service life. The internal recirculation structure features a shorter ball circulation path, which helps optimize stability during high-speed operation and minimizes design constraints imposed by complex external return mechanisms. Meanwhile, advancements in

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precision grinding, raceway machining, heat treatment, preload control, and lubrication technologies have enabled stable mass production of smaller-diameter, higher-precision products. Furthermore, with the semiconductor, high-end equipment, and precision automation industries placing greater emphasis on supply security and localized sourcing for critical mechanical components, equipment manufacturers are actively diversifying their supply chains; this creates new opportunities for market entry and replacement for ball screw manufacturers capable of miniaturized design, precision manufacturing, and custom development.

Report Scope

This report is a detailed and comprehensive analysis for global Internal Recirculation Miniature Ball Screw market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Internal Recirculation Miniature Ball Screw market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Internal Recirculation Miniature Ball Screw market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Internal Recirculation Miniature Ball Screw market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Internal Recirculation Miniature Ball Screw market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

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The Primary Objectives in This Report Are:

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

To assess the growth potential for Internal Recirculation Miniature Ball Screw

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Internal Recirculation Miniature Ball Screw market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NSK, THK, Schaeffler, Hiwin Technologies, KSS, Bosch Rexroth Corporation, August Steinmeyer GmbH & Co. KG, Regal Rexnord, PMI GROUP, KURODA Precision, etc.

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

Internal Recirculation Miniature Ball Screw market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market Segmentation

Market segment by Type

Ordinary Grade (C7-C10)

Precision Grade (C5-C3)

Ultra-precision Grade (C0-C1)

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Market segment by Shaft Diameter

?6 mm

6-10 mm

11-16 mm

Market segment by Technology

Ground Ball Screw

Rolled Ball Screw

Market segment by Application

CNC Machine

Semiconductor Machinery

Measuring Instrument

Medical Instrument

Aerospace

Other

Major players covered

NSK

THK

Schaeffler

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Hiwin Technologies

KSS

Bosch Rexroth Corporation

August Steinmeyer GmbH & Co. KG

Regal Rexnord

PMI GROUP

KURODA Precision

Nidec Instruments

Dai-ichi Sokuhan Works Co.

TBI Motion

I+F Antriebs- und Maschinentechnik GmbH

Karl Hipp GmbH

MinebeaMitsumi Inc.

OME Technology Co., Ltd. (STAF)

GTEN ball screw

Nanjing Technical Equipment Manufacture Co., Ltd.

Screw Technology Co., Ltd.

Morimoto Seimitsu

MPS Micro Precision Systems AG

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Takeuchi Precision Works Co., Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Internal Recirculation Miniature Ball Screw product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Internal Recirculation Miniature Ball Screw, with price, sales quantity, revenue, and global market share of Internal Recirculation Miniature Ball Screw from 2021 to 2026.

Chapter 3, the Internal Recirculation Miniature Ball Screw competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Internal Recirculation Miniature Ball Screw breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales

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quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Internal Recirculation Miniature Ball Screw market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Internal Recirculation Miniature Ball Screw.

Chapter 14 and 15, to describe Internal Recirculation Miniature Ball Screw sales channel, distributors, customers, research findings and conclusion.

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