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Global Internal Recirculation Miniature Ball Screw Market Growth 2026-2032

https://marketpublishers.com/r/GF237B29B34EEN.html
Date: October 2026
Pages: 165
Price: US$ 3,660.00 (Single User License)
ID: GF237B29B34EEN

Abstracts

The global Internal Recirculation Miniature Ball Screw market size is predicted to grow from US$ 364 million in 2025 to US$ 571 million in 2032; it is expected to grow at a CAGR of 6.8% from 2026 to 2032.

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.

Key market drivers include the following:

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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

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

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

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

This report presents a comprehensive overview, market shares, and growth opportunities of Internal Recirculation Miniature Ball Screw market by product type,

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application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Ordinary Grade (C7-C10)

Precision Grade (C5-C3)

Ultra-precision Grade (C0-C1)

Segmentation by Shaft Diameter:

?6 mm

6-10 mm

11-16 mm

Segmentation by Technology:

Ground Ball Screw

Rolled Ball Screw

Segmentation by Application:

CNC Machine

Semiconductor Machinery

Measuring Instrument

Medical Instrument

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Aerospace

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

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Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

NSK

THK

Schaeffler

Hiwin Technologies

KSS

Bosch Rexroth Corporation

August Steinmeyer GmbH & Co. KG

Regal Rexnord

PMI GROUP

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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

Takeuchi Precision Works Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Internal Recirculation Miniature Ball Screw market?

What factors are driving Internal Recirculation Miniature Ball Screw market growth, globally and by region?

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

How do Internal Recirculation Miniature Ball Screw market opportunities vary by end market size?

How does Internal Recirculation Miniature Ball Screw break out by Type, by Application?

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