

Global External Circulation Ball Screw Market Growth 2025-2031

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Abstracts

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The global External Circulation Ball Screw market size is predicted to grow from US\$ 720 million in 2025 to US\$ 865 million in 2031; it is expected to grow at a CAGR of 3.1% from 2025 to 2031.

A ball screw is a mechanical linear actuator that translates rotational motion to linear motion with little friction. A threaded shaft provides a helical raceway for ball bearings which act as a precision screw. As well as being able to apply or withstand high thrust loads, they can do so with minimum internal friction. They are made to close tolerances and are therefore suitable for use in situations in which high precision is necessary. There are two commonly used circulation methods: outer circulation and inner circulation. The ball that sometimes comes out of contact with the screw during the cycle is called the outer loop.

A Circulation Ball Screw is a mechanical transmission commonly used to convert rotary motion into linear motion, or to transfer torque and force to linear motion. It consists of two parts: ball and screw, and the efficient linear motion transmission is realized by the rolling of the ball between the screw thread and the raceway. The rolling motion of the ball screw can significantly reduce friction loss, thereby improving transmission efficiency and making it more efficient than traditional screw transmission. Due to the rolling motion of the balls, ball screws typically have high accuracy and repeatability for applications requiring precise positioning and control. Ball screws can withstand large loads and are suitable for scenarios where large torque or force needs to be transmitted. The rolling design of the ball screw reduces friction and wear for longer life.

LP Information, Inc. (LPI) ' newest research report, the “External Circulation Ball Screw Industry Forecast” looks at past sales and reviews total world External Circulation Ball Screw sales in 2024, providing a comprehensive analysis by region and market sector of projected External Circulation Ball Screw sales for 2025 through 2031. With External Circulation Ball Screw sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world External Circulation Ball Screw industry.

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

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

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

Segmentation by Type:

End Cap Type

Intubation Type

Spiral Groove Type

Segmentation by Application:

Semiconductor and LCD Production Equipment

Machine Tools and Injection Molding Machines

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

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

NSK

THK

Schaeffler

Altra Industrial Motion

SKF

Bosch Rexroth

Hiwin

Tsubaki Nakashima

KSS

Kuroda

Nidec Sankyo

PMI

ISSOKU

KOYO

Huazhu

Jiangsu Qijian Screw Rod

SBC

Qidong Haosen

TRCD

Hanjiang Machine Tool

Donglai

Key Questions Addressed in this Report

What is the 10-year outlook for the global External Circulation Ball Screw market?

What factors are driving External Circulation Ball Screw market growth, globally and by region?

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

How do External Circulation Ball Screw market opportunities vary by end market size?

How does External Circulation Ball Screw break out by Type, by Application?

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