

# Global End-deflector Ball Screw Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G540F2EB9677EN.html>

Date: July 2026

Pages: 96

Price: US\$ 3,480.00 (Single User License)

ID: G540F2EB9677EN

## Abstracts

According to our (Global Info Research) latest study, the global End-deflector Ball Screw market size was valued at US\$ 137 million in 2025 and is forecast to a readjusted size of US\$ 199 million by 2032 with a CAGR of 5.5% during review period.

In 2025, global sales of End-deflector Ball Screws were approximately 380,000 sets, with an average global selling price of around US\$350 per set. The gross margin of major manufacturers in the industry was approximately 25%-40%.

An End-deflector Ball Screw is a type of ball screw assembly that adopts an end-deflector ball recirculation structure. It is typically composed of a screw shaft, ball nut, steel balls, end-deflector components, seals, and lubrication structures. Its core operating principle is that steel balls roll between the raceways of the screw shaft and the nut to transmit motion and load, while the end-deflector structure at the end of the nut guides the balls into the return channel, thereby forming continuous ball recirculation. Compared with external return-tube ball screws, the end-deflector design is generally more compact, quieter, and better suited for high-speed operation, high-lead designs, high DN values, and high acceleration/deceleration applications. Compared with end-cap recirculation structures, the End-deflector Ball Screw places greater emphasis on an embedded end-mounted deflector for ball return, and the two structures should not be simply regarded as the same.

The upstream supply chain of End-deflector Ball Screws mainly includes alloy steel, bearing steel, steel balls, nut blanks, end-deflector components, seals, lubricating grease, as well as heat treatment, grinding, rolling, and inspection processes. The midstream segment consists of ball screw assembly manufacturers, with key

manufacturing control points including raceway accuracy, smoothness of ball recirculation, preload stability, noise performance, and service life. Downstream applications mainly include CNC machine tools, semiconductor equipment, electronics manufacturing equipment, industrial automation equipment, automotive and new energy equipment, and medical and testing equipment. The product is particularly suitable for linear motion systems requiring high-speed feed, precision positioning, short-cycle reciprocating motion, and compact installation space.

This report is a detailed and comprehensive analysis for global End-deflector 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 End-deflector Ball Screw market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

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

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

Global End-deflector Ball Screw market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

#### 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 End-deflector 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 End-deflector 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, KURODA Precision Industries, KSS, PMI Precision Motion Industries, HIWIN Technologies, Tungshung Technology, Jiangsu Hengli Hydraulic, Xi'an Hua-Ou Precision Machinery, Shandong Wantong Hydraulic, etc.

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

### Market Segmentation

End-deflector 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 segment by Type

Rolled Grade

Ground Grade

#### Market segment by Structure

Single Nut

Double Nut

#### Market segment by Diameter

Small Diameter (6-16 mm)

Medium Diameter (20?32 mm)

Large Diameter (?40 mm)

#### Market segment by Application

CNC Machine Tool

Semiconductor Equipment

Electronics Manufacturing Equipment

Industrial Automation Equipment

Automotive and New Energy Equipment

Medical and Testing Equipment

Other

#### Major players covered

NSK

KURODA Precision Industries

KSS

PMI Precision Motion Industries

HIWIN Technologies

Tungshung Technology

Jiangsu Hengli Hydraulic

Xi'an Hua-Ou Precision Machinery

Shandong Wantong Hydraulic

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)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe End-deflector Ball Screw product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the End-deflector 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 quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and End-deflector 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 End-deflector Ball Screw.

Chapter 14 and 15, to describe End-deflector Ball Screw sales channel, distributors, customers, research findings and conclusion.

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