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Global Sliding Bearings for Semiconductor Equipment 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 Sliding Bearings for Semiconductor Equipment market size was valued at US$ 400 million in 2025 and is forecast to a readjusted size of US$ 693 million by 2032 with a CAGR of 8.0% during review period.

Sliding bearings for semiconductor equipment are plain-bearing solutions that support/guide motion via sliding contact (not rolling elements). They are favored in semiconductor tools where cleanroom compatibility, low particle generation, low outgassing, corrosion resistance, and grease-free operation are critical, especially for vacuum/chemical environments. In 2025, global Sliding bearings for semiconductor equipment production reached approximately 28177 k units. Upstream materials center on PTFE/engineering polymers, metal backings and bronze interlayers, solid-lubricant coatings, and (when needed) PFPE clean lubricants. Downstream, these solutions are integrated into wafer handling/alignment stages, vacuum valves/pumps, and wafer processing tools, where reliability and contamination control dominate design trade-offs.

The sliding bearings for semiconductor equipment market is essentially about contamination-controlled tribology for cleanroom/vacuum semiconductor tools. Demand is pulled by low particles/outgassing, longer service life with minimal maintenance, chemical resistance, and compact designs, favoring polymer self-lubricating and metal-PTFE composite plain bearings, while PFPE clean lubricants remain critical where lubrication cannot be eliminated.

This report is a detailed and comprehensive analysis for global Sliding Bearings for Semiconductor Equipment market. Both quantitative and qualitative analyses are

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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 Sliding Bearings for Semiconductor Equipment market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Sliding Bearings for Semiconductor Equipment 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 Sliding Bearings for Semiconductor Equipment 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 Sliding Bearings for Semiconductor Equipment market shares of main players, shipments in revenue ($ Million), sales quantity (K 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 Sliding Bearings for Semiconductor Equipment
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 Sliding Bearings for Semiconductor Equipment 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 Oiles Corporation, Igus, Daido Metal, RBC Bearings, Schaeffler, NSK, Tenneco (Federal-Mogul), Rheinmetall Automotive, Timken (GGB), Saint-Gobain, etc.

This report also provides key insights about market drivers, restraints, opportunities,

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new product launches or approvals.

Market Segmentation

Sliding Bearings for Semiconductor Equipment 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

Polymer

Metal-polymer

Fiber-reinforced / Fabric Liner

Metal Base with Embedded Solid Lubricant

Market segment by Motion Type

Rotation/Oscillation Bushings

Thrust Sliding Bearings

Linear Sliding Bearings

Spherical Sliding Bearings

Market segment by Bearing Form

Bushing / Flanged Bushing

Thrust Washer

Spherical Plain / Rod End

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Linear Plain Bearings / Slides

Market segment by Load Direction

Radial Load Dominated

Axial Load Dominated

Others

Market segment by Application

Front-end Manufacturing Equipment

Back-end Packaging and Testing Equipment

Testing/Measuring Equipment

Handling System Equipment

Major players covered

Oiles Corporation

Igus

Daido Metal

RBC Bearings

Schaeffler

NSK

Tenneco (Federal-Mogul)

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Rheinmetall Automotive

Timken (GGB)

Saint-Gobain

SKF

CSB Sliding Bearings

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 Sliding Bearings for Semiconductor Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Sliding Bearings for Semiconductor Equipment, with price, sales quantity, revenue, and global market share of Sliding Bearings for Semiconductor Equipment from 2021 to 2026.

Chapter 3, the Sliding Bearings for Semiconductor Equipment competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Sliding Bearings for Semiconductor Equipment 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.

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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 Sliding Bearings for Semiconductor Equipment 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 Sliding Bearings for Semiconductor Equipment.

Chapter 14 and 15, to describe Sliding Bearings for Semiconductor Equipment sales channel, distributors, customers, research findings and conclusion.

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