

Global Sliding Bearings for Semiconductor Equipment Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Sliding Bearings for Semiconductor Equipment market size is expected to reach \$ 693 million by 2032, rising at a market growth of 8.0% CAGR during the forecast period (2026-2032).

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 studies the global Sliding Bearings for Semiconductor Equipment production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Sliding

Bearings for Semiconductor Equipment and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Sliding Bearings for Semiconductor Equipment that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Sliding Bearings for Semiconductor Equipment total production and demand, 2021-2032, (K Units)

Global Sliding Bearings for Semiconductor Equipment total production value, 2021-2032, (USD Million)

Global Sliding Bearings for Semiconductor Equipment production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Sliding Bearings for Semiconductor Equipment consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Sliding Bearings for Semiconductor Equipment domestic production, consumption, key domestic manufacturers and share

Global Sliding Bearings for Semiconductor Equipment production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Sliding Bearings for Semiconductor Equipment production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Sliding Bearings for Semiconductor Equipment production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Sliding Bearings for Semiconductor Equipment market based on the following parameters - company overview, production, value, 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, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Sliding Bearings for Semiconductor Equipment market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Sliding Bearings for Semiconductor Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Sliding Bearings for Semiconductor Equipment Market, Segmentation by Type:

Polymer

Metal-polymer

Fiber-reinforced / Fabric Liner

Metal Base with Embedded Solid Lubricant

Global Sliding Bearings for Semiconductor Equipment Market, Segmentation by Motion Type:

Rotation/Oscillation Bushings

Thrust Sliding Bearings

Linear Sliding Bearings

Spherical Sliding Bearings

Global Sliding Bearings for Semiconductor Equipment Market, Segmentation by Bearing Form:

Bushing / Flanged Bushing

Thrust Washer

Spherical Plain / Rod End

Linear Plain Bearings / Slides

Global Sliding Bearings for Semiconductor Equipment Market, Segmentation by Load Direction:

Radial Load Dominated

Axial Load Dominated

Others

Global Sliding Bearings for Semiconductor Equipment Market, Segmentation by Application:

Front-end Manufacturing Equipment

Back-end Packaging and Testing Equipment

Testing/Measuring Equipment

Handling System Equipment

Companies Profiled:

Oiles Corporation

Igus

Daido Metal

RBC Bearings

Schaeffler

NSK

Tenneco (Federal-Mogul)

Rheinmetall Automotive

Timken (GGB)

Saint-Gobain

SKF

CSB Sliding Bearings

Key Questions Answered:

1. How big is the global Sliding Bearings for Semiconductor Equipment market?
2. What is the demand of the global Sliding Bearings for Semiconductor Equipment market?
3. What is the year over year growth of the global Sliding Bearings for Semiconductor Equipment market?
4. What is the production and production value of the global Sliding Bearings for Semiconductor Equipment market?
5. Who are the key producers in the global Sliding Bearings for Semiconductor Equipment market?
6. What are the growth factors driving the market demand?

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