

Global Precision Gearbox Market Size Study & Forecast, By Product (Planetary, Harmonic and Cycloid) By Application (Military & Aerospace, Food & Beverage, Tobacco, Machine Tools, Materials Handling, Packaging, Robotics, Medical, Others), and Regional Analysis, 2023-2030

https://marketpublishers.com/r/G53733DCDD56EN.html

Date: April 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G53733DCDD56EN

Abstracts

Global Precision Gearbox Market is valued at approximately USD 2.70 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 9.90% over the forecast period 2023-2030. A precision gearbox is a mechanical device used to transmit power and torque from a motor to a driven component with high accuracy and precision. This type of gearbox is designed to provide precise control over speed, rotation, and torque, making it suitable for applications where precise positioning and motion control are required. Precision gearboxes typically feature high-quality gears, bearings, and housing materials to ensure minimal backlash, smooth operation, and long-term reliability. The Precision Gearbox market is expanding because of factors such as the rising adoption of industrial robots, the rising adoption of advanced machinery in manufacturing processes, and growing industrialization and infrastructure development.

The rising adoption of industrial robots is significantly driving the growth of the Precision Gearbox Market. As industries increasingly embrace automation to enhance efficiency, productivity, and precision in manufacturing processes, the demand for precision gearboxes, which are integral components of robotic systems, is experiencing a notable surge. According to the International Federation of Robotics, in the year 2022 404,578 units were installed, up 5% from 385,143 units in 2021. Most newly deployed robots, amounting to 73%, were installed in Asia, with 15% in Europe and 10% in the Americas. Moreover, for the second consecutive year, the global record of 500,000 units was



surpassed, indicating a sustained upward trend in robot installations worldwide. Thus, the rising adoption of industrial robots is driving market growth. In addition, the rising adoption of Electric Vehicles (EVs) and growth in the aerospace and defense sector are creating new opportunities for market growth. However, high initial investment and availability of alternative technologies stifle market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Precision Gearbox Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the increasing demand for automation across industries such as automotive, aerospace, and robotics. This surge in automation necessitates the utilization of high-precision gearboxes to ensure precise motion control, driving market growth. Moreover, advancements in technology have led to the development of more efficient and compact gearboxes, enhancing their appeal and adoption rates. North America's thriving industrial sector and focus on innovation further bolster the proliferation of precision gearbox applications, thereby contributing to the expansion of the regional market. Asia Pacific is expected to grow at the fastest rate during the forecast period, owing to factors such as the widespread adoption of precision gearboxes is evident across industries like cement and metallurgy in countries such as China, Japan, India, and South Korea, particularly for material handling applications. Furthermore, the increasing industrialization, and manufacturing sector within the region is poised to unlock fresh avenues of growth for the market.

Major market players included in this report are:

Harmonic Drive LLC

NIDEC-SHIMPO CORPORATION

St?ber Antriebstechnik GmbH and Co. KG

WITTENSTEIN SE

GAM ENTERPRISES, INC.

DieQua Corporation

Neugart GmbH



Apex Dynamics, Inc.

Sumitomo Drive Technologies

Nabtesco Corporation

Recent Developments in the Market:

In October 2023, Schaeffler unveiled an expansion of its precision bearings, motors, and gearbox ranges tailored specifically for machine tool applications. By introducing new automation solutions, Schaeffler addresses the evolving demands of the machine tool industry. These innovative solutions are distinguished by enhanced dynamic characteristics, precision, energy efficiency, and extended machine runtimes, effectively meeting the evolving needs of manufacturers in the sector.

Global Precision Gearbox Market Report Scope:

Historical Data - 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Product, Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define the market sizes of different segments & countries



in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters to detailed information about the crucial aspects such as driving factors & challenges that will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Product:
Planetary
Harmonic
Cycloid
By Application:
Military & Aerospace
Food & Beverage, And Tobacco
Machine Tools
Materials Handling
Packaging, Robotics
Medical
Others
By Region:
North America

U.S.



Canada
Europe
UK
Germany
France
Spain
Italy
ROE
Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC
Latin America
Brazil
Mexico
Middle East & Africa



Saudi Arabia

South Africa

Rest of Middle East & Africa



Contents

CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2030 (USD Billion)
- 1.2.1. Precision Gearbox Market, by Region, 2020-2030 (USD Billion)
- 1.2.2. Precision Gearbox Market, by Product, 2020-2030 (USD Billion)
- 1.2.3. Precision Gearbox Market, by Application, 2020-2030 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

CHAPTER 2. GLOBAL PRECISION GEARBOX MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
 - 2.2.1. Industry Evolution
 - 2.2.2. Scope of the Study
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

CHAPTER 3. GLOBAL PRECISION GEARBOX MARKET DYNAMICS

- 3.1. Precision Gearbox Market Impact Analysis (2020-2030)
 - 3.1.1. Market Drivers
 - 3.1.1.1. Rising Adoption of Industrial Robots
 - 3.1.1.2. Rising Adoption of Advanced Machinery in Manufacturing Processes
 - 3.1.1.3. Growing Industrialization and Infrastructure Development
 - 3.1.2. Market Challenges
 - 3.1.2.1. High Initial Investment
 - 3.1.2.2. Availability of Alternative Technologies
 - 3.1.3. Market Opportunities
 - 3.1.3.1. Rising Adoption of Electric Vehicles (EVs)
 - 3.1.3.2. Growth in Aerospace and Defense Sector

CHAPTER 4. GLOBAL PRECISION GEARBOX MARKET INDUSTRY ANALYSIS

4.1. Porter's 5 Force Model



- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Impact Analysis
- 4.3. PEST Analysis
 - 4.3.1. Political
 - 4.3.2. Economical
 - 4.3.3. Social
- 4.3.4. Technological
- 4.3.5. Environmental
- 4.3.6. Legal
- 4.4. Top investment opportunity
- 4.5. Top winning strategies
- 4.6. COVID-19 Impact Analysis
- 4.7. Disruptive Trends
- 4.8. Industry Expert Perspective
- 4.9. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL PRECISION GEARBOX MARKET, BY PRODUCT

- 5.1. Market Snapshot
- 5.2. Global Precision Gearbox Market by Product, Performance Potential Analysis
- 5.3. Global Precision Gearbox Market Estimates & Forecasts by Product 2020-2030 (USD Billion)
- 5.4. Precision Gearbox Market, Sub Segment Analysis
 - 5.4.1. Planetary
 - 5.4.2. Harmonic
 - 5.4.3. Cycloid

CHAPTER 6. GLOBAL PRECISION GEARBOX MARKET, BY APPLICATION

- 6.1. Market Snapshot
- 6.2. Global Precision Gearbox Market by Application, Performance Potential Analysis
- 6.3. Global Precision Gearbox Market Estimates & Forecasts by Application 2020-2030 (USD Billion)
- 6.4. Precision Gearbox Market, Sub Segment Analysis
 - 6.4.1. Military & Aerospace



- 6.4.2. Food & Beverage, And Tobacco
- 6.4.3. Machine Tools
- 6.4.4. Materials Handling
- 6.4.5. Packaging, Robotics
- 6.4.6. Medical

CHAPTER 7. GLOBAL PRECISION GEARBOX MARKET, REGIONAL ANALYSIS

- 7.1. Top Leading Countries
- 7.2. Top Emerging Countries
- 7.3. Precision Gearbox Market, Regional Market Snapshot
- 7.4. North America Precision Gearbox Market
 - 7.4.1. U.S. Precision Gearbox Market
 - 7.4.1.1. Product breakdown estimates & forecasts, 2020-2030
 - 7.4.1.2. Application breakdown estimates & forecasts, 2020-2030
 - 7.4.2. Canada Precision Gearbox Market
- 7.5. Europe Precision Gearbox Market Snapshot
- 7.5.1. U.K. Precision Gearbox Market
- 7.5.2. Germany Precision Gearbox Market
- 7.5.3. France Precision Gearbox Market
- 7.5.4. Spain Precision Gearbox Market
- 7.5.5. Italy Precision Gearbox Market
- 7.5.6. Rest of Europe Precision Gearbox Market
- 7.6. Asia-Pacific Precision Gearbox Market Snapshot
 - 7.6.1. China Precision Gearbox Market
 - 7.6.2. India Precision Gearbox Market
 - 7.6.3. Japan Precision Gearbox Market
 - 7.6.4. Australia Precision Gearbox Market
 - 7.6.5. South Korea Precision Gearbox Market
 - 7.6.6. Rest of Asia Pacific Precision Gearbox Market
- 7.7. Latin America Precision Gearbox Market Snapshot
 - 7.7.1. Brazil Precision Gearbox Market
 - 7.7.2. Mexico Precision Gearbox Market
- 7.8. Middle East & Africa Precision Gearbox Market
 - 7.8.1. Saudi Arabia Precision Gearbox Market
 - 7.8.2. South Africa Precision Gearbox Market
 - 7.8.3. Rest of Middle East & Africa Precision Gearbox Market

CHAPTER 8. COMPETITIVE INTELLIGENCE



- 8.1. Key Company SWOT Analysis
 - 8.1.1. Company
 - 8.1.2. Company
 - 8.1.3. Company
- 8.2. Top Market Strategies
- 8.3. Company Profiles
 - 8.3.1. Harmonic Drive LLC
 - 8.3.1.1. Key Information
 - 8.3.1.2. Overview
 - 8.3.1.3. Financial (Subject to Data Availability)
 - 8.3.1.4. Product Summary
 - 8.3.1.5. Recent Developments
 - 8.3.2. Nidec-Shimpo Corporation
 - 8.3.3. St?ber Antriebstechnik GmbH and Co. KG
 - 8.3.4. WITTENSTEIN SE
 - 8.3.5. GAM ENTERPRISES, INC.
 - 8.3.6. DieQua Corporation
 - 8.3.7. Neugart GmbH
 - 8.3.8. Apex Dynamics, Inc.
 - 8.3.9. Sumitomo Drive Technologies
 - 8.3.10. Nabtesco Corporation

CHAPTER 9. RESEARCH PROCESS

- 9.1. Research Process
 - 9.1.1. Data Mining
 - 9.1.2. Analysis
 - 9.1.3. Market Estimation
 - 9.1.4. Validation
 - 9.1.5. Publishing
- 9.2. Research Attributes
- 9.3. Research Assumption



List Of Tables

LIST OF TABLES

- TABLE 1. Global Precision Gearbox Market, report scope
- TABLE 2. Global Precision Gearbox Market estimates & forecasts by Region 2020-2030 (USD Billion)
- TABLE 3. Global Precision Gearbox Market estimates & forecasts by Product 2020-2030 (USD Billion)
- TABLE 4. Global Precision Gearbox Market estimates & forecasts by Application 2020-2030 (USD Billion)
- TABLE 5. Global Precision Gearbox Market by segment, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 6. Global Precision Gearbox Market by region, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 7. Global Precision Gearbox Market by segment, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 8. Global Precision Gearbox Market by region, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 9. Global Precision Gearbox Market by segment, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 10. Global Precision Gearbox Market by region, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 11. Global Precision Gearbox Market by segment, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 12. Global Precision Gearbox Market by region, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 13. Global Precision Gearbox Market by segment, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 14. Global Precision Gearbox Market by region, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 15. U.S. Precision Gearbox Market estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 16. U.S. Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 17. U.S. Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 18. Canada Precision Gearbox Market estimates & forecasts, 2020-2030 (USD Billion)



- TABLE 19. Canada Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 20. Canada Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 21. UK Precision Gearbox Market estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 22. UK Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 23. UK Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 24. Germany Precision Gearbox Market estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 25. Germany Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 26. Germany Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 27. France Precision Gearbox Market estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 28. France Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 29. France Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 30. Italy Precision Gearbox Market estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 31. Italy Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 32. Italy Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 33. Spain Precision Gearbox Market estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 34. Spain Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 35. Spain Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 36. RoE Precision Gearbox Market estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 37. RoE Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 38. RoE Precision Gearbox Market estimates & forecasts by segment



- 2020-2030 (USD Billion)
- TABLE 39. China Precision Gearbox Market estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 40. China Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 41. China Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 42. India Precision Gearbox Market estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 43. India Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 44. India Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 45. Japan Precision Gearbox Market estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 46. Japan Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 47. Japan Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 48. South Korea Precision Gearbox Market estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 49. South Korea Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 50. South Korea Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 51. Australia Precision Gearbox Market estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 52. Australia Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 53. Australia Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 54. RoAPAC Precision Gearbox Market estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 55. RoAPAC Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 56. RoAPAC Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 57. Brazil Precision Gearbox Market estimates & forecasts, 2020-2030 (USD Billion)



- TABLE 58. Brazil Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 59. Brazil Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 60. Mexico Precision Gearbox Market estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 61. Mexico Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 62. Mexico Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 63. RoLA Precision Gearbox Market estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 64. RoLA Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 65. RoLA Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 66. Saudi Arabia Precision Gearbox Market estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 67. South Africa Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 68. RoMEA Precision Gearbox Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 69. List of secondary sources, used in the study of Global Precision Gearbox Market
- TABLE 70. List of primary sources, used in the study of Global Precision Gearbox Market
- TABLE 71. Years considered for the study
- TABLE 72. Exchange rates considered
- List of tables and figures and dummy in nature, final lists may vary in the final deliverable



List Of Figures

LIST OF FIGURES

- FIG 1. Global Precision Gearbox Market, research methodology
- FIG 2. Global Precision Gearbox Market, Market estimation techniques
- FIG 3. Global Market size estimates & forecast methods
- FIG 4. Global Precision Gearbox Market, key trends 2022
- FIG 5. Global Precision Gearbox Market, growth prospects 2023-2030
- FIG 6. Global Precision Gearbox Market, porters 5 force model
- FIG 7. Global Precision Gearbox Market, pest analysis
- FIG 8. Global Precision Gearbox Market, value chain analysis
- FIG 9. Global Precision Gearbox Market by segment, 2020 & 2030 (USD Billion)
- FIG 10. Global Precision Gearbox Market by segment, 2020 & 2030 (USD Billion)
- FIG 11. Global Precision Gearbox Market by segment, 2020 & 2030 (USD Billion)
- FIG 12. Global Precision Gearbox Market by segment, 2020 & 2030 (USD Billion)
- FIG 13. Global Precision Gearbox Market by segment, 2020 & 2030 (USD Billion)
- FIG 14. Global Precision Gearbox Market, regional snapshot 2020 & 2030
- FIG 15. North America Precision Gearbox Market 2020 & 2030 (USD Billion)
- FIG 16. Europe Precision Gearbox Market 2020 & 2030 (USD Billion)
- FIG 17. Asia Pacific Precision Gearbox Market 2020 & 2030 (USD Billion)
- FIG 18. Latin America Precision Gearbox Market 2020 & 2030 (USD Billion)
- FIG 19. Middle East & Africa Precision Gearbox Market 2020 & 2030 (USD Billion)

List of tables and figures and dummy in nature, final lists may vary in the final deliverable



I would like to order

Product name: Global Precision Gearbox Market Size Study & Forecast, By Product (Planetary,

Harmonic and Cycloid) By Application (Military & Aerospace, Food & Beverage, Tobacco, Machine Tools, Materials Handling, Packaging, Robotics, Medical, Others), and Regional

Analysis, 2023-2030

Product link: https://marketpublishers.com/r/G53733DCDD56EN.html

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

Payment

First name:

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/G53733DCDD56EN.html

To pay by Wire Transfer, please, fill in your contact details in the form below:

Last name:	
Email:	
Company:	
Address:	
City:	
Zip code:	
Country:	
Tel:	
Fax:	
Your message:	
	**All fields are required
	Custumer signature

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at https://marketpublishers.com/docs/terms.html



To place an order via fax simply print this form, fill in the information below and fax the completed form to $+44\ 20\ 7900\ 3970$