

Global Precision Planetary Gearbox for Industrial Robotics Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Precision Planetary Gearbox for Industrial Robotics market size is expected to reach \$ million by 2032, rising at a market growth of %CAGR during the forecast period (2026-2032).

Precision planetary gearboxes for industrial robotics are high-accuracy speed-reduction components used in robot joints, automation equipment, servo motion systems, collaborative robots and high-precision positioning mechanisms. In 2024, the global average unit price is approximately US\$148, with annual shipments reaching around 12.6 million units. Gross margins typically range from 28%?46%, driven by grinding accuracy, gear geometry optimization, heat treatment consistency, bearing selection, and integration with servo motors. The supply chain includes upstream alloy steels, precision forging, gear grinding machines, heat treatment processes and bearings; midstream companies conduct housing machining, gear grinding, quality calibration, noise/vibration testing and assembly; downstream customers include industrial robot manufacturers, cobot OEMs, automated production line integrators, semiconductor equipment makers, medical robotics companies and precision motion-control system builders.

Driven by the global acceleration of smart manufacturing, precision planetary gearboxes are increasingly adopted in robot joints, cobots, AGV/AMR motion systems and semiconductor automation. As harmonic reducers face cost and torque limitations in some payload ranges, planetary gearboxes benefit from a broader torque window, lower cost per joint and easier integration with servo motors. The long-term growth will be supported by expanding robot density in China, Europe and emerging markets, as well as increased demand from medical, logistics and electronics automation.

This report studies the global Precision Planetary Gearbox for Industrial Robotics production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Precision Planetary Gearbox for Industrial Robotics 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 Precision Planetary Gearbox for Industrial Robotics that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Precision Planetary Gearbox for Industrial Robotics total production and demand, 2021-2032, (K Units)

Global Precision Planetary Gearbox for Industrial Robotics total production value, 2021-2032, (USD Million)

Global Precision Planetary Gearbox for Industrial Robotics production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Precision Planetary Gearbox for Industrial Robotics consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Precision Planetary Gearbox for Industrial Robotics domestic production, consumption, key domestic manufacturers and share

Global Precision Planetary Gearbox for Industrial Robotics production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Precision Planetary Gearbox for Industrial Robotics production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Precision Planetary Gearbox for Industrial Robotics production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Precision Planetary Gearbox for Industrial Robotics 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 Nidec-Shimpo, Apex Dynamics, Neugart, Wittenstein Alpha, Kollmorgen / Thomson Gear Solutions, Stober Precision Gear Units, SEW-Eurodrive Planetary Gear Units, Sesame Motor / Sesame Planetary Gearbox, LI-MING Machinery, Sumitomo Drive Technologies (Precision Planetary), 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 Precision Planetary Gearbox for Industrial Robotics 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 Precision Planetary Gearbox for Industrial Robotics Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Precision Planetary Gearbox for Industrial Robotics Market, Segmentation by Type:

P0 Ultra-Precision

P1 High Precision

P2 Standard Precision

Low-Backlash Type

Global Precision Planetary Gearbox for Industrial Robotics Market, Segmentation by Configuration:

Single-Stage Planetary

Two-Stage Planetary

Three-Stage Planetary

Global Precision Planetary Gearbox for Industrial Robotics Market, Segmentation by Torque Range:

Low Torque (Cobot / Small Robot)

Medium Torque (4?6 Axis Robots)

High Torque (Heavy-Duty Industrial)

Global Precision Planetary Gearbox for Industrial Robotics Market, Segmentation by Application:

Industrial

Aerospace

Energy

Medical

Other

Companies Profiled:

Nidec-Shimpo

Apex Dynamics

Neugart

Wittenstein Alpha

Kollmorgen / Thomson Gear Solutions

Stober Precision Gear Units

SEW-Eurodrive Planetary Gear Units

Sesame Motor / Sesame Planetary Gearbox

LI-MING Machinery

Sumitomo Drive Technologies (Precision Planetary)

Key Questions Answered:

1. How big is the global Precision Planetary Gearbox for Industrial Robotics market?
2. What is the demand of the global Precision Planetary Gearbox for Industrial Robotics market?
3. What is the year over year growth of the global Precision Planetary Gearbox for Industrial Robotics market?
4. What is the production and production value of the global Precision Planetary Gearbox for Industrial Robotics market?
5. Who are the key producers in the global Precision Planetary Gearbox for Industrial Robotics market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Precision Planetary Gearbox for Industrial Robotics Introduction
- 1.2 World Precision Planetary Gearbox for Industrial Robotics Supply & Forecast
 - 1.2.1 World Precision Planetary Gearbox for Industrial Robotics Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Precision Planetary Gearbox for Industrial Robotics Production (2021-2032)
 - 1.2.3 World Precision Planetary Gearbox for Industrial Robotics Pricing Trends (2021-2032)
- 1.3 World Precision Planetary Gearbox for Industrial Robotics Production by Region (Based on Production Site)
 - 1.3.1 World Precision Planetary Gearbox for Industrial Robotics Production Value by Region (2021-2032)
 - 1.3.2 World Precision Planetary Gearbox for Industrial Robotics Production by Region (2021-2032)
 - 1.3.3 World Precision Planetary Gearbox for Industrial Robotics Average Price by Region (2021-2032)
 - 1.3.4 North America Precision Planetary Gearbox for Industrial Robotics Production (2021-2032)
 - 1.3.5 Europe Precision Planetary Gearbox for Industrial Robotics Production (2021-2032)
 - 1.3.6 China Precision Planetary Gearbox for Industrial Robotics Production (2021-2032)
 - 1.3.7 Japan Precision Planetary Gearbox for Industrial Robotics Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Precision Planetary Gearbox for Industrial Robotics Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Precision Planetary Gearbox for Industrial Robotics Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Precision Planetary Gearbox for Industrial Robotics Demand (2021-2032)
- 2.2 World Precision Planetary Gearbox for Industrial Robotics Consumption by Region
 - 2.2.1 World Precision Planetary Gearbox for Industrial Robotics Consumption by Region (2021-2026)

2.2.2 World Precision Planetary Gearbox for Industrial Robotics Consumption Forecast by Region (2027-2032)

2.3 United States Precision Planetary Gearbox for Industrial Robotics Consumption (2021-2032)

2.4 China Precision Planetary Gearbox for Industrial Robotics Consumption (2021-2032)

2.5 Europe Precision Planetary Gearbox for Industrial Robotics Consumption (2021-2032)

2.6 Japan Precision Planetary Gearbox for Industrial Robotics Consumption (2021-2032)

2.7 South Korea Precision Planetary Gearbox for Industrial Robotics Consumption (2021-2032)

2.8 ASEAN Precision Planetary Gearbox for Industrial Robotics Consumption (2021-2032)

2.9 India Precision Planetary Gearbox for Industrial Robotics Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Precision Planetary Gearbox for Industrial Robotics Production Value by Manufacturer (2021-2026)

3.2 World Precision Planetary Gearbox for Industrial Robotics Production by Manufacturer (2021-2026)

3.3 World Precision Planetary Gearbox for Industrial Robotics Average Price by Manufacturer (2021-2026)

3.4 Precision Planetary Gearbox for Industrial Robotics Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Precision Planetary Gearbox for Industrial Robotics Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Precision Planetary Gearbox for Industrial Robotics in 2025

3.5.3 Global Concentration Ratios (CR8) for Precision Planetary Gearbox for Industrial Robotics in 2025

3.6 Precision Planetary Gearbox for Industrial Robotics Market: Overall Company Footprint Analysis

3.6.1 Precision Planetary Gearbox for Industrial Robotics Market: Region Footprint

3.6.2 Precision Planetary Gearbox for Industrial Robotics Market: Company Product Type Footprint

3.6.3 Precision Planetary Gearbox for Industrial Robotics Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Precision Planetary Gearbox for Industrial Robotics Production Value Comparison

4.1.1 United States VS China: Precision Planetary Gearbox for Industrial Robotics Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Precision Planetary Gearbox for Industrial Robotics Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Precision Planetary Gearbox for Industrial Robotics Production Comparison

4.2.1 United States VS China: Precision Planetary Gearbox for Industrial Robotics Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Precision Planetary Gearbox for Industrial Robotics Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Precision Planetary Gearbox for Industrial Robotics Consumption Comparison

4.3.1 United States VS China: Precision Planetary Gearbox for Industrial Robotics Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Precision Planetary Gearbox for Industrial Robotics Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Precision Planetary Gearbox for Industrial Robotics Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Precision Planetary Gearbox for Industrial Robotics Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Precision Planetary Gearbox for Industrial Robotics Production Value (2021-2026)

4.4.3 United States Based Manufacturers Precision Planetary Gearbox for Industrial Robotics Production (2021-2026)

4.5 China Based Precision Planetary Gearbox for Industrial Robotics Manufacturers and Market Share

4.5.1 China Based Precision Planetary Gearbox for Industrial Robotics Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Precision Planetary Gearbox for Industrial Robotics Production Value (2021-2026)

4.5.3 China Based Manufacturers Precision Planetary Gearbox for Industrial Robotics Production (2021-2026)

4.6 Rest of World Based Precision Planetary Gearbox for Industrial Robotics Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Precision Planetary Gearbox for Industrial Robotics Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Precision Planetary Gearbox for Industrial Robotics Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Precision Planetary Gearbox for Industrial Robotics Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Precision Planetary Gearbox for Industrial Robotics Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 P0 Ultra-Precision

5.2.2 P1 High Precision

5.2.3 P2 Standard Precision

5.2.4 Low-Backlash Type

5.3 Market Segment by Type

5.3.1 World Precision Planetary Gearbox for Industrial Robotics Production by Type (2021-2032)

5.3.2 World Precision Planetary Gearbox for Industrial Robotics Production Value by Type (2021-2032)

5.3.3 World Precision Planetary Gearbox for Industrial Robotics Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY CONFIGURATION

6.1 World Precision Planetary Gearbox for Industrial Robotics Market Size Overview by Configuration: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Configuration

6.2.1 Single-Stage Planetary

6.2.2 Two-Stage Planetary

6.2.3 Three-Stage Planetary

6.3 Market Segment by Configuration

6.3.1 World Precision Planetary Gearbox for Industrial Robotics Production by Configuration (2021-2032)

6.3.2 World Precision Planetary Gearbox for Industrial Robotics Production Value by Configuration (2021-2032)

6.3.3 World Precision Planetary Gearbox for Industrial Robotics Average Price by Configuration (2021-2032)

7 MARKET ANALYSIS BY TORQUE RANGE

7.1 World Precision Planetary Gearbox for Industrial Robotics Market Size Overview by Torque Range: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Torque Range

7.2.1 Low Torque (Cobot / Small Robot)

7.2.2 Medium Torque (4?6 Axis Robots)

7.2.3 High Torque (Heavy-Duty Industrial)

7.3 Market Segment by Torque Range

7.3.1 World Precision Planetary Gearbox for Industrial Robotics Production by Torque Range (2021-2032)

7.3.2 World Precision Planetary Gearbox for Industrial Robotics Production Value by Torque Range (2021-2032)

7.3.3 World Precision Planetary Gearbox for Industrial Robotics Average Price by Torque Range (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Precision Planetary Gearbox for Industrial Robotics Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Industrial

8.2.2 Aerospace

8.2.3 Energy

8.2.4 Medical

8.2.5 Other

8.3 Market Segment by Application

8.3.1 World Precision Planetary Gearbox for Industrial Robotics Production by Application (2021-2032)

8.3.2 World Precision Planetary Gearbox for Industrial Robotics Production Value by Application (2021-2032)

8.3.3 World Precision Planetary Gearbox for Industrial Robotics Average Price by

Application (2021-2032)

9 COMPANY PROFILES

9.1 Nidec-Shimpo

9.1.1 Nidec-Shimpo Details

9.1.2 Nidec-Shimpo Major Business

9.1.3 Nidec-Shimpo Precision Planetary Gearbox for Industrial Robotics Product and Services

9.1.4 Nidec-Shimpo Precision Planetary Gearbox for Industrial Robotics Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Nidec-Shimpo Recent Developments/Updates

9.1.6 Nidec-Shimpo Competitive Strengths & Weaknesses

9.2 Apex Dynamics

9.2.1 Apex Dynamics Details

9.2.2 Apex Dynamics Major Business

9.2.3 Apex Dynamics Precision Planetary Gearbox for Industrial Robotics Product and Services

9.2.4 Apex Dynamics Precision Planetary Gearbox for Industrial Robotics Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Apex Dynamics Recent Developments/Updates

9.2.6 Apex Dynamics Competitive Strengths & Weaknesses

9.3 Neugart

9.3.1 Neugart Details

9.3.2 Neugart Major Business

9.3.3 Neugart Precision Planetary Gearbox for Industrial Robotics Product and Services

9.3.4 Neugart Precision Planetary Gearbox for Industrial Robotics Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Neugart Recent Developments/Updates

9.3.6 Neugart Competitive Strengths & Weaknesses

9.4 Wittenstein Alpha

9.4.1 Wittenstein Alpha Details

9.4.2 Wittenstein Alpha Major Business

9.4.3 Wittenstein Alpha Precision Planetary Gearbox for Industrial Robotics Product and Services

9.4.4 Wittenstein Alpha Precision Planetary Gearbox for Industrial Robotics Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Wittenstein Alpha Recent Developments/Updates

- 9.4.6 Wittenstein Alpha Competitive Strengths & Weaknesses
- 9.5 Kollmorgen / Thomson Gear Solutions
 - 9.5.1 Kollmorgen / Thomson Gear Solutions Details
 - 9.5.2 Kollmorgen / Thomson Gear Solutions Major Business
 - 9.5.3 Kollmorgen / Thomson Gear Solutions Precision Planetary Gearbox for Industrial Robotics Product and Services
 - 9.5.4 Kollmorgen / Thomson Gear Solutions Precision Planetary Gearbox for Industrial Robotics Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Kollmorgen / Thomson Gear Solutions Recent Developments/Updates
 - 9.5.6 Kollmorgen / Thomson Gear Solutions Competitive Strengths & Weaknesses
- 9.6 Stober Precision Gear Units
 - 9.6.1 Stober Precision Gear Units Details
 - 9.6.2 Stober Precision Gear Units Major Business
 - 9.6.3 Stober Precision Gear Units Precision Planetary Gearbox for Industrial Robotics Product and Services
 - 9.6.4 Stober Precision Gear Units Precision Planetary Gearbox for Industrial Robotics Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Stober Precision Gear Units Recent Developments/Updates
 - 9.6.6 Stober Precision Gear Units Competitive Strengths & Weaknesses
- 9.7 SEW-Eurodrive Planetary Gear Units
 - 9.7.1 SEW-Eurodrive Planetary Gear Units Details
 - 9.7.2 SEW-Eurodrive Planetary Gear Units Major Business
 - 9.7.3 SEW-Eurodrive Planetary Gear Units Precision Planetary Gearbox for Industrial Robotics Product and Services
 - 9.7.4 SEW-Eurodrive Planetary Gear Units Precision Planetary Gearbox for Industrial Robotics Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 SEW-Eurodrive Planetary Gear Units Recent Developments/Updates
 - 9.7.6 SEW-Eurodrive Planetary Gear Units Competitive Strengths & Weaknesses
- 9.8 Sesame Motor / Sesame Planetary Gearbox
 - 9.8.1 Sesame Motor / Sesame Planetary Gearbox Details
 - 9.8.2 Sesame Motor / Sesame Planetary Gearbox Major Business
 - 9.8.3 Sesame Motor / Sesame Planetary Gearbox Precision Planetary Gearbox for Industrial Robotics Product and Services
 - 9.8.4 Sesame Motor / Sesame Planetary Gearbox Precision Planetary Gearbox for Industrial Robotics Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Sesame Motor / Sesame Planetary Gearbox Recent Developments/Updates
 - 9.8.6 Sesame Motor / Sesame Planetary Gearbox Competitive Strengths & Weaknesses

9.9 LI-MING Machinery

9.9.1 LI-MING Machinery Details

9.9.2 LI-MING Machinery Major Business

9.9.3 LI-MING Machinery Precision Planetary Gearbox for Industrial Robotics Product and Services

9.9.4 LI-MING Machinery Precision Planetary Gearbox for Industrial Robotics Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 LI-MING Machinery Recent Developments/Updates

9.9.6 LI-MING Machinery Competitive Strengths & Weaknesses

9.10 Sumitomo Drive Technologies (Precision Planetary)

9.10.1 Sumitomo Drive Technologies (Precision Planetary) Details

9.10.2 Sumitomo Drive Technologies (Precision Planetary) Major Business

9.10.3 Sumitomo Drive Technologies (Precision Planetary) Precision Planetary Gearbox for Industrial Robotics Product and Services

9.10.4 Sumitomo Drive Technologies (Precision Planetary) Precision Planetary Gearbox for Industrial Robotics Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Sumitomo Drive Technologies (Precision Planetary) Recent Developments/Updates

9.10.6 Sumitomo Drive Technologies (Precision Planetary) Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Precision Planetary Gearbox for Industrial Robotics Industry Chain

10.2 Precision Planetary Gearbox for Industrial Robotics Upstream Analysis

10.2.1 Precision Planetary Gearbox for Industrial Robotics Core Raw Materials

10.2.2 Main Manufacturers of Precision Planetary Gearbox for Industrial Robotics Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Precision Planetary Gearbox for Industrial Robotics Production Mode

10.6 Precision Planetary Gearbox for Industrial Robotics Procurement Model

10.7 Precision Planetary Gearbox for Industrial Robotics Industry Sales Model and Sales Channels

10.7.1 Precision Planetary Gearbox for Industrial Robotics Sales Model

10.7.2 Precision Planetary Gearbox for Industrial Robotics Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Precision Planetary Gearbox for Industrial Robotics Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Precision Planetary Gearbox for Industrial Robotics Production Value by Region (2021-2026) & (USD Million)

Table 3. World Precision Planetary Gearbox for Industrial Robotics Production Value by Region (2027-2032) & (USD Million)

Table 4. World Precision Planetary Gearbox for Industrial Robotics Production Value Market Share by Region (2021-2026)

Table 5. World Precision Planetary Gearbox for Industrial Robotics Production Value Market Share by Region (2027-2032)

Table 6. World Precision Planetary Gearbox for Industrial Robotics Production by Region (2021-2026) & (K Units)

Table 7. World Precision Planetary Gearbox for Industrial Robotics Production by Region (2027-2032) & (K Units)

Table 8. World Precision Planetary Gearbox for Industrial Robotics Production Market Share by Region (2021-2026)

Table 9. World Precision Planetary Gearbox for Industrial Robotics Production Market Share by Region (2027-2032)

Table 10. World Precision Planetary Gearbox for Industrial Robotics Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Precision Planetary Gearbox for Industrial Robotics Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Precision Planetary Gearbox for Industrial Robotics Major Market Trends

Table 13. World Precision Planetary Gearbox for Industrial Robotics Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Precision Planetary Gearbox for Industrial Robotics Consumption by Region (2021-2026) & (K Units)

Table 15. World Precision Planetary Gearbox for Industrial Robotics Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Precision Planetary Gearbox for Industrial Robotics Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Precision Planetary Gearbox for Industrial Robotics Producers in 2025

Table 18. World Precision Planetary Gearbox for Industrial Robotics Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Precision Planetary Gearbox for Industrial Robotics Producers in 2025

Table 20. World Precision Planetary Gearbox for Industrial Robotics Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Precision Planetary Gearbox for Industrial Robotics Company Evaluation Quadrant

Table 22. World Precision Planetary Gearbox for Industrial Robotics Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Precision Planetary Gearbox for Industrial Robotics Production Site of Key Manufacturer

Table 24. Precision Planetary Gearbox for Industrial Robotics Market: Company Product Type Footprint

Table 25. Precision Planetary Gearbox for Industrial Robotics Market: Company Product Application Footprint

Table 26. Precision Planetary Gearbox for Industrial Robotics Competitive Factors

Table 27. Precision Planetary Gearbox for Industrial Robotics New Entrant and Capacity Expansion Plans

Table 28. Precision Planetary Gearbox for Industrial Robotics Mergers & Acquisitions Activity

Table 29. United States VS China Precision Planetary Gearbox for Industrial Robotics Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Precision Planetary Gearbox for Industrial Robotics Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Precision Planetary Gearbox for Industrial Robotics Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Precision Planetary Gearbox for Industrial Robotics Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Precision Planetary Gearbox for Industrial Robotics Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Precision Planetary Gearbox for Industrial Robotics Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Precision Planetary Gearbox for Industrial Robotics Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Precision Planetary Gearbox for Industrial Robotics Production Market Share (2021-2026)

Table 37. China Based Precision Planetary Gearbox for Industrial Robotics Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Precision Planetary Gearbox for Industrial Robotics Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Precision Planetary Gearbox for Industrial Robotics Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Precision Planetary Gearbox for Industrial Robotics Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Precision Planetary Gearbox for Industrial Robotics Production Market Share (2021-2026)

Table 42. Rest of World Based Precision Planetary Gearbox for Industrial Robotics Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Precision Planetary Gearbox for Industrial Robotics Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Precision Planetary Gearbox for Industrial Robotics Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Precision Planetary Gearbox for Industrial Robotics Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Precision Planetary Gearbox for Industrial Robotics Production Market Share (2021-2026)

Table 47. World Precision Planetary Gearbox for Industrial Robotics Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Precision Planetary Gearbox for Industrial Robotics Production by Type (2021-2026) & (K Units)

Table 49. World Precision Planetary Gearbox for Industrial Robotics Production by Type (2027-2032) & (K Units)

Table 50. World Precision Planetary Gearbox for Industrial Robotics Production Value by Type (2021-2026) & (USD Million)

Table 51. World Precision Planetary Gearbox for Industrial Robotics Production Value by Type (2027-2032) & (USD Million)

Table 52. World Precision Planetary Gearbox for Industrial Robotics Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Precision Planetary Gearbox for Industrial Robotics Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Precision Planetary Gearbox for Industrial Robotics Production Value by Configuration, (USD Million), 2021 & 2025 & 2032

Table 55. World Precision Planetary Gearbox for Industrial Robotics Production by Configuration (2021-2026) & (K Units)

Table 56. World Precision Planetary Gearbox for Industrial Robotics Production by Configuration (2027-2032) & (K Units)

Table 57. World Precision Planetary Gearbox for Industrial Robotics Production Value by Configuration (2021-2026) & (USD Million)

Table 58. World Precision Planetary Gearbox for Industrial Robotics Production Value

by Configuration (2027-2032) & (USD Million)

Table 59. World Precision Planetary Gearbox for Industrial Robotics Average Price by Configuration (2021-2026) & (US\$/Unit)

Table 60. World Precision Planetary Gearbox for Industrial Robotics Average Price by Configuration (2027-2032) & (US\$/Unit)

Table 61. World Precision Planetary Gearbox for Industrial Robotics Production Value by Torque Range, (USD Million), 2021 & 2025 & 2032

Table 62. World Precision Planetary Gearbox for Industrial Robotics Production by Torque Range (2021-2026) & (K Units)

Table 63. World Precision Planetary Gearbox for Industrial Robotics Production by Torque Range (2027-2032) & (K Units)

Table 64. World Precision Planetary Gearbox for Industrial Robotics Production Value by Torque Range (2021-2026) & (USD Million)

Table 65. World Precision Planetary Gearbox for Industrial Robotics Production Value by Torque Range (2027-2032) & (USD Million)

Table 66. World Precision Planetary Gearbox for Industrial Robotics Average Price by Torque Range (2021-2026) & (US\$/Unit)

Table 67. World Precision Planetary Gearbox for Industrial Robotics Average Price by Torque Range (2027-2032) & (US\$/Unit)

Table 68. World Precision Planetary Gearbox for Industrial Robotics Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Precision Planetary Gearbox for Industrial Robotics Production by Application (2021-2026) & (K Units)

Table 70. World Precision Planetary Gearbox for Industrial Robotics Production by Application (2027-2032) & (K Units)

Table 71. World Precision Planetary Gearbox for Industrial Robotics Production Value by Application (2021-2026) & (USD Million)

Table 72. World Precision Planetary Gearbox for Industrial Robotics Production Value by Application (2027-2032) & (USD Million)

Table 73. World Precision Planetary Gearbox for Industrial Robotics Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Precision Planetary Gearbox for Industrial Robotics Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Nidec-Shimpo Basic Information, Manufacturing Base and Competitors

Table 76. Nidec-Shimpo Major Business

Table 77. Nidec-Shimpo Precision Planetary Gearbox for Industrial Robotics Product and Services

Table 78. Nidec-Shimpo Precision Planetary Gearbox for Industrial Robotics Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market

Share (2021-2026)

Table 79. Nidec-Shimpo Recent Developments/Updates

Table 80. Nidec-Shimpo Competitive Strengths & Weaknesses

Table 81. Apex Dynamics Basic Information, Manufacturing Base and Competitors

Table 82. Apex Dynamics Major Business

Table 83. Apex Dynamics Precision Planetary Gearbox for Industrial Robotics Product and Services

Table 84. Apex Dynamics Precision Planetary Gearbox for Industrial Robotics Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Apex Dynamics Recent Developments/Updates

Table 86. Apex Dynamics Competitive Strengths & Weaknesses

Table 87. Neugart Basic Information, Manufacturing Base and Competitors

Table 88. Neugart Major Business

Table 89. Neugart Precision Planetary Gearbox for Industrial Robotics Product and Services

Table 90. Neugart Precision Planetary Gearbox for Industrial Robotics Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Neugart Recent Developments/Updates

Table 92. Neugart Competitive Strengths & Weaknesses

Table 93. Wittenstein Alpha Basic Information, Manufacturing Base and Competitors

Table 94. Wittenstein Alpha Major Business

Table 95. Wittenstein Alpha Precision Planetary Gearbox for Industrial Robotics Product and Services

Table 96. Wittenstein Alpha Precision Planetary Gearbox for Industrial Robotics Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Wittenstein Alpha Recent Developments/Updates

Table 98. Wittenstein Alpha Competitive Strengths & Weaknesses

Table 99. Kollmorgen / Thomson Gear Solutions Basic Information, Manufacturing Base and Competitors

Table 100. Kollmorgen / Thomson Gear Solutions Major Business

Table 101. Kollmorgen / Thomson Gear Solutions Precision Planetary Gearbox for Industrial Robotics Product and Services

Table 102. Kollmorgen / Thomson Gear Solutions Precision Planetary Gearbox for Industrial Robotics Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Kollmorgen / Thomson Gear Solutions Recent Developments/Updates

- Table 104. Kollmorgen / Thomson Gear Solutions Competitive Strengths & Weaknesses
- Table 105. Stober Precision Gear Units Basic Information, Manufacturing Base and Competitors
- Table 106. Stober Precision Gear Units Major Business
- Table 107. Stober Precision Gear Units Precision Planetary Gearbox for Industrial Robotics Product and Services
- Table 108. Stober Precision Gear Units Precision Planetary Gearbox for Industrial Robotics Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Stober Precision Gear Units Recent Developments/Updates
- Table 110. Stober Precision Gear Units Competitive Strengths & Weaknesses
- Table 111. SEW-Eurodrive Planetary Gear Units Basic Information, Manufacturing Base and Competitors
- Table 112. SEW-Eurodrive Planetary Gear Units Major Business
- Table 113. SEW-Eurodrive Planetary Gear Units Precision Planetary Gearbox for Industrial Robotics Product and Services
- Table 114. SEW-Eurodrive Planetary Gear Units Precision Planetary Gearbox for Industrial Robotics Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. SEW-Eurodrive Planetary Gear Units Recent Developments/Updates
- Table 116. SEW-Eurodrive Planetary Gear Units Competitive Strengths & Weaknesses
- Table 117. Sesame Motor / Sesame Planetary Gearbox Basic Information, Manufacturing Base and Competitors
- Table 118. Sesame Motor / Sesame Planetary Gearbox Major Business
- Table 119. Sesame Motor / Sesame Planetary Gearbox Precision Planetary Gearbox for Industrial Robotics Product and Services
- Table 120. Sesame Motor / Sesame Planetary Gearbox Precision Planetary Gearbox for Industrial Robotics Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Sesame Motor / Sesame Planetary Gearbox Recent Developments/Updates
- Table 122. Sesame Motor / Sesame Planetary Gearbox Competitive Strengths & Weaknesses
- Table 123. LI-MING Machinery Basic Information, Manufacturing Base and Competitors
- Table 124. LI-MING Machinery Major Business
- Table 125. LI-MING Machinery Precision Planetary Gearbox for Industrial Robotics Product and Services
- Table 126. LI-MING Machinery Precision Planetary Gearbox for Industrial Robotics Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin

and Market Share (2021-2026)

Table 127. LI-MING Machinery Recent Developments/Updates

Table 128. LI-MING Machinery Competitive Strengths & Weaknesses

Table 129. Sumitomo Drive Technologies (Precision Planetary) Basic Information, Manufacturing Base and Competitors

Table 130. Sumitomo Drive Technologies (Precision Planetary) Major Business

Table 131. Sumitomo Drive Technologies (Precision Planetary) Precision Planetary Gearbox for Industrial Robotics Product and Services

Table 132. Sumitomo Drive Technologies (Precision Planetary) Precision Planetary Gearbox for Industrial Robotics Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Sumitomo Drive Technologies (Precision Planetary) Recent Developments/Updates

Table 134. Sumitomo Drive Technologies (Precision Planetary) Competitive Strengths & Weaknesses

Table 135. Global Key Players of Precision Planetary Gearbox for Industrial Robotics Upstream (Raw Materials)

Table 136. Global Precision Planetary Gearbox for Industrial Robotics Typical Customers

Table 137. Precision Planetary Gearbox for Industrial Robotics Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Precision Planetary Gearbox for Industrial Robotics Picture

Figure 2. World Precision Planetary Gearbox for Industrial Robotics Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Precision Planetary Gearbox for Industrial Robotics Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Precision Planetary Gearbox for Industrial Robotics Production (2021-2032) & (K Units)

Figure 5. World Precision Planetary Gearbox for Industrial Robotics Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Precision Planetary Gearbox for Industrial Robotics Production Value Market Share by Region (2021-2032)

Figure 7. World Precision Planetary Gearbox for Industrial Robotics Production Market Share by Region (2021-2032)

Figure 8. North America Precision Planetary Gearbox for Industrial Robotics Production (2021-2032) & (K Units)

Figure 9. Europe Precision Planetary Gearbox for Industrial Robotics Production (2021-2032) & (K Units)

Figure 10. China Precision Planetary Gearbox for Industrial Robotics Production (2021-2032) & (K Units)

Figure 11. Japan Precision Planetary Gearbox for Industrial Robotics Production (2021-2032) & (K Units)

Figure 12. Precision Planetary Gearbox for Industrial Robotics Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Precision Planetary Gearbox for Industrial Robotics Consumption (2021-2032) & (K Units)

Figure 15. World Precision Planetary Gearbox for Industrial Robotics Consumption Market Share by Region (2021-2032)

Figure 16. United States Precision Planetary Gearbox for Industrial Robotics Consumption (2021-2032) & (K Units)

Figure 17. China Precision Planetary Gearbox for Industrial Robotics Consumption (2021-2032) & (K Units)

Figure 18. Europe Precision Planetary Gearbox for Industrial Robotics Consumption (2021-2032) & (K Units)

Figure 19. Japan Precision Planetary Gearbox for Industrial Robotics Consumption (2021-2032) & (K Units)

- Figure 20. South Korea Precision Planetary Gearbox for Industrial Robotics Consumption (2021-2032) & (K Units)
- Figure 21. ASEAN Precision Planetary Gearbox for Industrial Robotics Consumption (2021-2032) & (K Units)
- Figure 22. India Precision Planetary Gearbox for Industrial Robotics Consumption (2021-2032) & (K Units)
- Figure 23. Producer Shipments of Precision Planetary Gearbox for Industrial Robotics by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 24. Global Four-firm Concentration Ratios (CR4) for Precision Planetary Gearbox for Industrial Robotics Markets in 2025
- Figure 25. Global Four-firm Concentration Ratios (CR8) for Precision Planetary Gearbox for Industrial Robotics Markets in 2025
- Figure 26. United States VS China: Precision Planetary Gearbox for Industrial Robotics Production Value Market Share Comparison (2021 & 2025 & 2032)
- Figure 27. United States VS China: Precision Planetary Gearbox for Industrial Robotics Production Market Share Comparison (2021 & 2025 & 2032)
- Figure 28. United States VS China: Precision Planetary Gearbox for Industrial Robotics Consumption Market Share Comparison (2021 & 2025 & 2032)
- Figure 29. United States Based Manufacturers Precision Planetary Gearbox for Industrial Robotics Production Market Share 2025
- Figure 30. China Based Manufacturers Precision Planetary Gearbox for Industrial Robotics Production Market Share 2025
- Figure 31. Rest of World Based Manufacturers Precision Planetary Gearbox for Industrial Robotics Production Market Share 2025
- Figure 32. World Precision Planetary Gearbox for Industrial Robotics Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Figure 33. World Precision Planetary Gearbox for Industrial Robotics Production Value Market Share by Type in 2025
- Figure 34. P0 Ultra-Precision
- Figure 35. P1 High Precision
- Figure 36. P2 Standard Precision
- Figure 37. Low-Backlash Type
- Figure 38. World Precision Planetary Gearbox for Industrial Robotics Production Market Share by Type (2021-2032)
- Figure 39. World Precision Planetary Gearbox for Industrial Robotics Production Value Market Share by Type (2021-2032)
- Figure 40. World Precision Planetary Gearbox for Industrial Robotics Average Price by Type (2021-2032) & (US\$/Unit)
- Figure 41. World Precision Planetary Gearbox for Industrial Robotics Production Value

by Configuration, (USD Million), 2021 & 2025 & 2032

Figure 42. World Precision Planetary Gearbox for Industrial Robotics Production Value Market Share by Configuration in 2025

Figure 43. Single-Stage Planetary

Figure 44. Two-Stage Planetary

Figure 45. Three-Stage Planetary

Figure 46. World Precision Planetary Gearbox for Industrial Robotics Production Market Share by Configuration (2021-2032)

Figure 47. World Precision Planetary Gearbox for Industrial Robotics Production Value Market Share by Configuration (2021-2032)

Figure 48. World Precision Planetary Gearbox for Industrial Robotics Average Price by Configuration (2021-2032) & (US\$/Unit)

Figure 49. World Precision Planetary Gearbox for Industrial Robotics Production Value by Torque Range, (USD Million), 2021 & 2025 & 2032

Figure 50. World Precision Planetary Gearbox for Industrial Robotics Production Value Market Share by Torque Range in 2025

Figure 51. Low Torque (Cobot / Small Robot)

Figure 52. Medium Torque (4?6 Axis Robots)

Figure 53. High Torque (Heavy-Duty Industrial)

Figure 54. World Precision Planetary Gearbox for Industrial Robotics Production Market Share by Torque Range (2021-2032)

Figure 55. World Precision Planetary Gearbox for Industrial Robotics Production Value Market Share by Torque Range (2021-2032)

Figure 56. World Precision Planetary Gearbox for Industrial Robotics Average Price by Torque Range (2021-2032) & (US\$/Unit)

Figure 57. World Precision Planetary Gearbox for Industrial Robotics Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Precision Planetary Gearbox for Industrial Robotics Production Value Market Share by Application in 2025

Figure 59. Industrial

Figure 60. Aerospace

Figure 61. Energy

Figure 62. Medical

Figure 63. Other

Figure 64. World Precision Planetary Gearbox for Industrial Robotics Production Market Share by Application (2021-2032)

Figure 65. World Precision Planetary Gearbox for Industrial Robotics Production Value Market Share by Application (2021-2032)

Figure 66. World Precision Planetary Gearbox for Industrial Robotics Average Price by

Application (2021-2032) & (US\$/Unit)

Figure 67. Precision Planetary Gearbox for Industrial Robotics Industry Chain

Figure 68. Precision Planetary Gearbox for Industrial Robotics Procurement Model

Figure 69. Precision Planetary Gearbox for Industrial Robotics Sales Model

Figure 70. Precision Planetary Gearbox for Industrial Robotics Sales Channels, Direct Sales, and Distribution

Figure 71. Methodology

Figure 72. Research Process and Data Source

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