

Global Strain Wave Gears for Industrial Robots Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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Abstracts

According to our (Global Info Research) latest study, the global Strain Wave Gears for Industrial Robots market size was valued at USD 432 million in 2022 and is forecast to a readjusted size of USD 681.9 million by 2029 with a CAGR of 6.7% during review period.

Strain wave gears, often referred to as harmonic drive systems, are specialized mechanical components used in various industrial robotic systems to achieve precision motion and control. These gears are a type of gear mechanism that allows for high gear reduction ratios with compact and lightweight designs. They are commonly employed in the joints and actuators of industrial robots to provide accurate and efficient motion control.

Drivers: Growing Industrial Automation: The increasing adoption of industrial automation and robotics in various sectors, including manufacturing, logistics, and healthcare, is driving the demand for precise and compact motion control solutions like strain wave gears.

High Precision Requirements: Industrial robots used in applications like assembly, pickand-place, and inspection require high-precision motion control. Strain wave gears are valued for their precision and accuracy.

Compact and Lightweight Design: Strain wave gears offer a compact and lightweight design, which is essential for robotic systems, as it enables more efficient use of space and energy.



Restrictions: Cost: High-precision components like strain wave gears can be relatively expensive, which may pose budget constraints for manufacturers and endusers of industrial robots, particularly in cost-sensitive industries.

Complex Manufacturing: Strain wave gears are intricate mechanisms to manufacture, and this complexity can result in higher production costs and lead times.

Material and Technology Challenges: Strain wave gears are often constructed with specialized materials and manufacturing processes, which can be affected by material availability, supply chain disruptions, and technological advancements.

Competition: The market for precision motion control components is competitive, and competition among manufacturers can lead to price pressures and potentially affect profit margins.

The Global Info Research report includes an overview of the development of the Strain Wave Gears for Industrial Robots industry chain, the market status of Multi-joint Robots (Cup Style, Hat Style), Coordinate Robots (Cup Style, Hat Style), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Strain Wave Gears for Industrial Robots.

Regionally, the report analyzes the Strain Wave Gears for Industrial Robots markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Strain Wave Gears for Industrial Robots market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Strain Wave Gears for Industrial Robots market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Strain Wave Gears for Industrial Robots industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different



by Type (e.g., Cup Style, Hat Style).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Strain Wave Gears for Industrial Robots market.

Regional Analysis: The report involves examining the Strain Wave Gears for Industrial Robots market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Strain Wave Gears for Industrial Robots market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Strain Wave Gears for Industrial Robots:

Company Analysis: Report covers individual Strain Wave Gears for Industrial Robots manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Strain Wave Gears for Industrial Robots This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Multi-joint Robots, Coordinate Robots).

Technology Analysis: Report covers specific technologies relevant to Strain Wave Gears for Industrial Robots. It assesses the current state, advancements, and potential future developments in Strain Wave Gears for Industrial Robots areas.

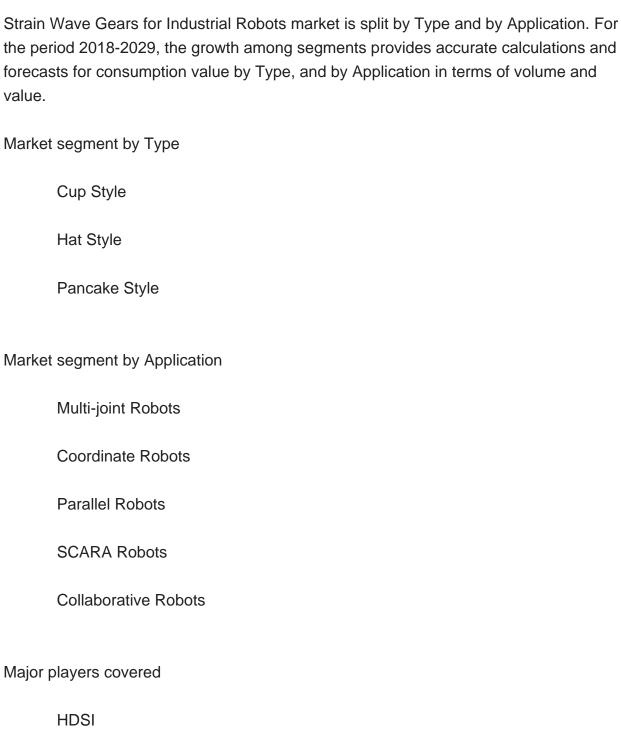
Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Strain Wave Gears for Industrial Robots market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.



Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and



Leaderdrive

Zhejiang Laifual



Shenzhen Han's Motion Technology Nidec-Shimpo Beijing CTKM Harmonic Drive **KOFON** Too Eph Transmission Technology SBB Tech **BHDI SPG BENRUN Robot** Cone Drive Guohua Hengyuan Tech Dev Co., Ltd. LI-MING Machinery Co., Ltd. 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 Strain Wave Gears for Industrial Robots product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Strain Wave Gears for Industrial Robots, with price, sales, revenue and global market share of Strain Wave Gears for Industrial Robots from 2018 to 2023.

Chapter 3, the Strain Wave Gears for Industrial Robots competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Strain Wave Gears for Industrial Robots breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2017 to 2022.and Strain Wave Gears for Industrial Robots market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

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 Strain Wave Gears for Industrial Robots.

Chapter 14 and 15, to describe Strain Wave Gears for Industrial Robots sales channel, distributors, customers, research findings and conclusion.



Contents

1 MARKET OVERVIEW

- 1.1 Product Overview and Scope of Strain Wave Gears for Industrial Robots
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
 - 1.3.1 Overview: Global Strain Wave Gears for Industrial Robots Consumption Value by

Type: 2018 Versus 2022 Versus 2029

- 1.3.2 Cup Style
- 1.3.3 Hat Style
- 1.3.4 Pancake Style
- 1.4 Market Analysis by Application
 - 1.4.1 Overview: Global Strain Wave Gears for Industrial Robots Consumption Value by

Application: 2018 Versus 2022 Versus 2029

- 1.4.2 Multi-joint Robots
- 1.4.3 Coordinate Robots
- 1.4.4 Parallel Robots
- 1.4.5 SCARA Robots
- 1.4.6 Collaborative Robots
- 1.5 Global Strain Wave Gears for Industrial Robots Market Size & Forecast
- 1.5.1 Global Strain Wave Gears for Industrial Robots Consumption Value (2018 & 2022 & 2029)
 - 1.5.2 Global Strain Wave Gears for Industrial Robots Sales Quantity (2018-2029)
 - 1.5.3 Global Strain Wave Gears for Industrial Robots Average Price (2018-2029)

2 MANUFACTURERS PROFILES

- **2.1 HDSI**
 - 2.1.1 HDSI Details
 - 2.1.2 HDSI Major Business
 - 2.1.3 HDSI Strain Wave Gears for Industrial Robots Product and Services
 - 2.1.4 HDSI Strain Wave Gears for Industrial Robots Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2018-2023)

- 2.1.5 HDSI Recent Developments/Updates
- 2.2 Leaderdrive
 - 2.2.1 Leaderdrive Details
 - 2.2.2 Leaderdrive Major Business
 - 2.2.3 Leaderdrive Strain Wave Gears for Industrial Robots Product and Services



- 2.2.4 Leaderdrive Strain Wave Gears for Industrial Robots Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
- 2.2.5 Leaderdrive Recent Developments/Updates
- 2.3 Zhejiang Laifual
 - 2.3.1 Zhejiang Laifual Details
 - 2.3.2 Zhejiang Laifual Major Business
 - 2.3.3 Zhejiang Laifual Strain Wave Gears for Industrial Robots Product and Services
- 2.3.4 Zhejiang Laifual Strain Wave Gears for Industrial Robots Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2018-2023)

- 2.3.5 Zhejiang Laifual Recent Developments/Updates
- 2.4 Shenzhen Han's Motion Technology
 - 2.4.1 Shenzhen Han's Motion Technology Details
 - 2.4.2 Shenzhen Han's Motion Technology Major Business
- 2.4.3 Shenzhen Han's Motion Technology Strain Wave Gears for Industrial Robots Product and Services
- 2.4.4 Shenzhen Han's Motion Technology Strain Wave Gears for Industrial Robots Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
- 2.4.5 Shenzhen Han's Motion Technology Recent Developments/Updates
- 2.5 Nidec-Shimpo
 - 2.5.1 Nidec-Shimpo Details
 - 2.5.2 Nidec-Shimpo Major Business
 - 2.5.3 Nidec-Shimpo Strain Wave Gears for Industrial Robots Product and Services
- 2.5.4 Nidec-Shimpo Strain Wave Gears for Industrial Robots Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
- 2.5.5 Nidec-Shimpo Recent Developments/Updates
- 2.6 Beijing CTKM Harmonic Drive
 - 2.6.1 Beijing CTKM Harmonic Drive Details
 - 2.6.2 Beijing CTKM Harmonic Drive Major Business
- 2.6.3 Beijing CTKM Harmonic Drive Strain Wave Gears for Industrial Robots Product and Services
- 2.6.4 Beijing CTKM Harmonic Drive Strain Wave Gears for Industrial Robots Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.6.5 Beijing CTKM Harmonic Drive Recent Developments/Updates
- 2.7 KOFON
 - 2.7.1 KOFON Details
 - 2.7.2 KOFON Major Business
 - 2.7.3 KOFON Strain Wave Gears for Industrial Robots Product and Services
- 2.7.4 KOFON Strain Wave Gears for Industrial Robots Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)



- 2.7.5 KOFON Recent Developments/Updates
- 2.8 Too Eph Transmission Technology
 - 2.8.1 Too Eph Transmission Technology Details
 - 2.8.2 Too Eph Transmission Technology Major Business
- 2.8.3 Too Eph Transmission Technology Strain Wave Gears for Industrial Robots Product and Services
- 2.8.4 Too Eph Transmission Technology Strain Wave Gears for Industrial Robots

Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

- 2.8.5 Too Eph Transmission Technology Recent Developments/Updates
- 2.9 SBB Tech
 - 2.9.1 SBB Tech Details
 - 2.9.2 SBB Tech Major Business
 - 2.9.3 SBB Tech Strain Wave Gears for Industrial Robots Product and Services
- 2.9.4 SBB Tech Strain Wave Gears for Industrial Robots Sales Quantity, Average

Price, Revenue, Gross Margin and Market Share (2018-2023)

- 2.9.5 SBB Tech Recent Developments/Updates
- 2.10 BHDI
 - 2.10.1 BHDI Details
 - 2.10.2 BHDI Major Business
 - 2.10.3 BHDI Strain Wave Gears for Industrial Robots Product and Services
 - 2.10.4 BHDI Strain Wave Gears for Industrial Robots Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2018-2023)

- 2.10.5 BHDI Recent Developments/Updates
- 2.11 SPG
 - 2.11.1 SPG Details
 - 2.11.2 SPG Major Business
 - 2.11.3 SPG Strain Wave Gears for Industrial Robots Product and Services
 - 2.11.4 SPG Strain Wave Gears for Industrial Robots Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2018-2023)

- 2.11.5 SPG Recent Developments/Updates
- 2.12 BENRUN Robot
 - 2.12.1 BENRUN Robot Details
 - 2.12.2 BENRUN Robot Major Business
 - 2.12.3 BENRUN Robot Strain Wave Gears for Industrial Robots Product and Services
 - 2.12.4 BENRUN Robot Strain Wave Gears for Industrial Robots Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2018-2023)

- 2.12.5 BENRUN Robot Recent Developments/Updates
- 2.13 Cone Drive
- 2.13.1 Cone Drive Details



- 2.13.2 Cone Drive Major Business
- 2.13.3 Cone Drive Strain Wave Gears for Industrial Robots Product and Services
- 2.13.4 Cone Drive Strain Wave Gears for Industrial Robots Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
- 2.13.5 Cone Drive Recent Developments/Updates
- 2.14 Guohua Hengyuan Tech Dev Co., Ltd.
 - 2.14.1 Guohua Hengyuan Tech Dev Co., Ltd. Details
 - 2.14.2 Guohua Hengyuan Tech Dev Co., Ltd. Major Business
- 2.14.3 Guohua Hengyuan Tech Dev Co., Ltd. Strain Wave Gears for Industrial Robots Product and Services
- 2.14.4 Guohua Hengyuan Tech Dev Co., Ltd. Strain Wave Gears for Industrial Robots Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
- 2.14.5 Guohua Hengyuan Tech Dev Co., Ltd. Recent Developments/Updates
- 2.15 LI-MING Machinery Co., Ltd.
 - 2.15.1 LI-MING Machinery Co., Ltd. Details
 - 2.15.2 LI-MING Machinery Co., Ltd. Major Business
- 2.15.3 LI-MING Machinery Co., Ltd. Strain Wave Gears for Industrial Robots Product and Services
- 2.15.4 LI-MING Machinery Co., Ltd. Strain Wave Gears for Industrial Robots Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023) 2.15.5 LI-MING Machinery Co., Ltd. Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: STRAIN WAVE GEARS FOR INDUSTRIAL ROBOTS BY MANUFACTURER

- 3.1 Global Strain Wave Gears for Industrial Robots Sales Quantity by Manufacturer (2018-2023)
- 3.2 Global Strain Wave Gears for Industrial Robots Revenue by Manufacturer (2018-2023)
- 3.3 Global Strain Wave Gears for Industrial Robots Average Price by Manufacturer (2018-2023)
- 3.4 Market Share Analysis (2022)
- 3.4.1 Producer Shipments of Strain Wave Gears for Industrial Robots by Manufacturer Revenue (\$MM) and Market Share (%): 2022
- 3.4.2 Top 3 Strain Wave Gears for Industrial Robots Manufacturer Market Share in 2022
- 3.4.2 Top 6 Strain Wave Gears for Industrial Robots Manufacturer Market Share in 2022
- 3.5 Strain Wave Gears for Industrial Robots Market: Overall Company Footprint



Analysis

- 3.5.1 Strain Wave Gears for Industrial Robots Market: Region Footprint
- 3.5.2 Strain Wave Gears for Industrial Robots Market: Company Product Type Footprint
- 3.5.3 Strain Wave Gears for Industrial Robots Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Strain Wave Gears for Industrial Robots Market Size by Region
- 4.1.1 Global Strain Wave Gears for Industrial Robots Sales Quantity by Region (2018-2029)
- 4.1.2 Global Strain Wave Gears for Industrial Robots Consumption Value by Region (2018-2029)
- 4.1.3 Global Strain Wave Gears for Industrial Robots Average Price by Region (2018-2029)
- 4.2 North America Strain Wave Gears for Industrial Robots Consumption Value (2018-2029)
- 4.3 Europe Strain Wave Gears for Industrial Robots Consumption Value (2018-2029)
- 4.4 Asia-Pacific Strain Wave Gears for Industrial Robots Consumption Value (2018-2029)
- 4.5 South America Strain Wave Gears for Industrial Robots Consumption Value (2018-2029)
- 4.6 Middle East and Africa Strain Wave Gears for Industrial Robots Consumption Value (2018-2029)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Strain Wave Gears for Industrial Robots Sales Quantity by Type (2018-2029)
- 5.2 Global Strain Wave Gears for Industrial Robots Consumption Value by Type (2018-2029)
- 5.3 Global Strain Wave Gears for Industrial Robots Average Price by Type (2018-2029)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Strain Wave Gears for Industrial Robots Sales Quantity by Application (2018-2029)



- 6.2 Global Strain Wave Gears for Industrial Robots Consumption Value by Application (2018-2029)
- 6.3 Global Strain Wave Gears for Industrial Robots Average Price by Application (2018-2029)

7 NORTH AMERICA

- 7.1 North America Strain Wave Gears for Industrial Robots Sales Quantity by Type (2018-2029)
- 7.2 North America Strain Wave Gears for Industrial Robots Sales Quantity by Application (2018-2029)
- 7.3 North America Strain Wave Gears for Industrial Robots Market Size by Country
- 7.3.1 North America Strain Wave Gears for Industrial Robots Sales Quantity by Country (2018-2029)
- 7.3.2 North America Strain Wave Gears for Industrial Robots Consumption Value by Country (2018-2029)
 - 7.3.3 United States Market Size and Forecast (2018-2029)
 - 7.3.4 Canada Market Size and Forecast (2018-2029)
- 7.3.5 Mexico Market Size and Forecast (2018-2029)

8 EUROPE

- 8.1 Europe Strain Wave Gears for Industrial Robots Sales Quantity by Type (2018-2029)
- 8.2 Europe Strain Wave Gears for Industrial Robots Sales Quantity by Application (2018-2029)
- 8.3 Europe Strain Wave Gears for Industrial Robots Market Size by Country
- 8.3.1 Europe Strain Wave Gears for Industrial Robots Sales Quantity by Country (2018-2029)
- 8.3.2 Europe Strain Wave Gears for Industrial Robots Consumption Value by Country (2018-2029)
 - 8.3.3 Germany Market Size and Forecast (2018-2029)
 - 8.3.4 France Market Size and Forecast (2018-2029)
 - 8.3.5 United Kingdom Market Size and Forecast (2018-2029)
 - 8.3.6 Russia Market Size and Forecast (2018-2029)
 - 8.3.7 Italy Market Size and Forecast (2018-2029)

9 ASIA-PACIFIC



- 9.1 Asia-Pacific Strain Wave Gears for Industrial Robots Sales Quantity by Type (2018-2029)
- 9.2 Asia-Pacific Strain Wave Gears for Industrial Robots Sales Quantity by Application (2018-2029)
- 9.3 Asia-Pacific Strain Wave Gears for Industrial Robots Market Size by Region
- 9.3.1 Asia-Pacific Strain Wave Gears for Industrial Robots Sales Quantity by Region (2018-2029)
- 9.3.2 Asia-Pacific Strain Wave Gears for Industrial Robots Consumption Value by Region (2018-2029)
 - 9.3.3 China Market Size and Forecast (2018-2029)
 - 9.3.4 Japan Market Size and Forecast (2018-2029)
 - 9.3.5 Korea Market Size and Forecast (2018-2029)
 - 9.3.6 India Market Size and Forecast (2018-2029)
 - 9.3.7 Southeast Asia Market Size and Forecast (2018-2029)
- 9.3.8 Australia Market Size and Forecast (2018-2029)

10 SOUTH AMERICA

- 10.1 South America Strain Wave Gears for Industrial Robots Sales Quantity by Type (2018-2029)
- 10.2 South America Strain Wave Gears for Industrial Robots Sales Quantity by Application (2018-2029)
- 10.3 South America Strain Wave Gears for Industrial Robots Market Size by Country 10.3.1 South America Strain Wave Gears for Industrial Robots Sales Quantity by Country (2018-2029)
- 10.3.2 South America Strain Wave Gears for Industrial Robots Consumption Value by Country (2018-2029)
 - 10.3.3 Brazil Market Size and Forecast (2018-2029)
 - 10.3.4 Argentina Market Size and Forecast (2018-2029)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Strain Wave Gears for Industrial Robots Sales Quantity by Type (2018-2029)
- 11.2 Middle East & Africa Strain Wave Gears for Industrial Robots Sales Quantity by Application (2018-2029)
- 11.3 Middle East & Africa Strain Wave Gears for Industrial Robots Market Size by Country
 - 11.3.1 Middle East & Africa Strain Wave Gears for Industrial Robots Sales Quantity by



Country (2018-2029)

- 11.3.2 Middle East & Africa Strain Wave Gears for Industrial Robots Consumption Value by Country (2018-2029)
 - 11.3.3 Turkey Market Size and Forecast (2018-2029)
 - 11.3.4 Egypt Market Size and Forecast (2018-2029)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2018-2029)
 - 11.3.6 South Africa Market Size and Forecast (2018-2029)

12 MARKET DYNAMICS

- 12.1 Strain Wave Gears for Industrial Robots Market Drivers
- 12.2 Strain Wave Gears for Industrial Robots Market Restraints
- 12.3 Strain Wave Gears for Industrial Robots Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Strain Wave Gears for Industrial Robots and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Strain Wave Gears for Industrial Robots
- 13.3 Strain Wave Gears for Industrial Robots Production Process
- 13.4 Strain Wave Gears for Industrial Robots Industrial Chain

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Strain Wave Gears for Industrial Robots Typical Distributors
- 14.3 Strain Wave Gears for Industrial Robots Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX



- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer



List Of Tables

LIST OF TABLES

Table 1. Global Strain Wave Gears for Industrial Robots Consumption Value by Type, (USD Million), 2018 & 2022 & 2029

Table 2. Global Strain Wave Gears for Industrial Robots Consumption Value by Application, (USD Million), 2018 & 2022 & 2029

Table 3. HDSI Basic Information, Manufacturing Base and Competitors

Table 4. HDSI Major Business

Table 5. HDSI Strain Wave Gears for Industrial Robots Product and Services

Table 6. HDSI Strain Wave Gears for Industrial Robots Sales Quantity (K Units),

Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 7. HDSI Recent Developments/Updates

Table 8. Leaderdrive Basic Information, Manufacturing Base and Competitors

Table 9. Leaderdrive Major Business

Table 10. Leaderdrive Strain Wave Gears for Industrial Robots Product and Services

Table 11. Leaderdrive Strain Wave Gears for Industrial Robots Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share

(2018-2023)

Table 12. Leaderdrive Recent Developments/Updates

Table 13. Zhejiang Laifual Basic Information, Manufacturing Base and Competitors

Table 14. Zhejiang Laifual Major Business

Table 15. Zhejiang Laifual Strain Wave Gears for Industrial Robots Product and Services

Table 16. Zhejiang Laifual Strain Wave Gears for Industrial Robots Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 17. Zhejiang Laifual Recent Developments/Updates

Table 18. Shenzhen Han's Motion Technology Basic Information, Manufacturing Base and Competitors

Table 19. Shenzhen Han's Motion Technology Major Business

Table 20. Shenzhen Han's Motion Technology Strain Wave Gears for Industrial Robots Product and Services

Table 21. Shenzhen Han's Motion Technology Strain Wave Gears for Industrial Robots Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 22. Shenzhen Han's Motion Technology Recent Developments/Updates



- Table 23. Nidec-Shimpo Basic Information, Manufacturing Base and Competitors
- Table 24. Nidec-Shimpo Major Business
- Table 25. Nidec-Shimpo Strain Wave Gears for Industrial Robots Product and Services
- Table 26. Nidec-Shimpo Strain Wave Gears for Industrial Robots Sales Quantity (K
- Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 27. Nidec-Shimpo Recent Developments/Updates
- Table 28. Beijing CTKM Harmonic Drive Basic Information, Manufacturing Base and Competitors
- Table 29. Beijing CTKM Harmonic Drive Major Business
- Table 30. Beijing CTKM Harmonic Drive Strain Wave Gears for Industrial Robots Product and Services
- Table 31. Beijing CTKM Harmonic Drive Strain Wave Gears for Industrial Robots Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 32. Beijing CTKM Harmonic Drive Recent Developments/Updates
- Table 33. KOFON Basic Information, Manufacturing Base and Competitors
- Table 34. KOFON Major Business
- Table 35. KOFON Strain Wave Gears for Industrial Robots Product and Services
- Table 36. KOFON Strain Wave Gears for Industrial Robots Sales Quantity (K Units),
- Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 37. KOFON Recent Developments/Updates
- Table 38. Too Eph Transmission Technology Basic Information, Manufacturing Base and Competitors
- Table 39. Too Eph Transmission Technology Major Business
- Table 40. Too Eph Transmission Technology Strain Wave Gears for Industrial Robots Product and Services
- Table 41. Too Eph Transmission Technology Strain Wave Gears for Industrial Robots Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 42. Too Eph Transmission Technology Recent Developments/Updates
- Table 43. SBB Tech Basic Information, Manufacturing Base and Competitors
- Table 44. SBB Tech Major Business
- Table 45. SBB Tech Strain Wave Gears for Industrial Robots Product and Services
- Table 46. SBB Tech Strain Wave Gears for Industrial Robots Sales Quantity (K Units),
- Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 47. SBB Tech Recent Developments/Updates



- Table 48. BHDI Basic Information, Manufacturing Base and Competitors
- Table 49. BHDI Major Business
- Table 50. BHDI Strain Wave Gears for Industrial Robots Product and Services
- Table 51. BHDI Strain Wave Gears for Industrial Robots Sales Quantity (K Units),
- Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 52. BHDI Recent Developments/Updates
- Table 53. SPG Basic Information, Manufacturing Base and Competitors
- Table 54. SPG Major Business
- Table 55. SPG Strain Wave Gears for Industrial Robots Product and Services
- Table 56. SPG Strain Wave Gears for Industrial Robots Sales Quantity (K Units),
- Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 57. SPG Recent Developments/Updates
- Table 58. BENRUN Robot Basic Information, Manufacturing Base and Competitors
- Table 59. BENRUN Robot Major Business
- Table 60. BENRUN Robot Strain Wave Gears for Industrial Robots Product and Services
- Table 61. BENRUN Robot Strain Wave Gears for Industrial Robots Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 62. BENRUN Robot Recent Developments/Updates
- Table 63. Cone Drive Basic Information, Manufacturing Base and Competitors
- Table 64. Cone Drive Major Business
- Table 65. Cone Drive Strain Wave Gears for Industrial Robots Product and Services
- Table 66. Cone Drive Strain Wave Gears for Industrial Robots Sales Quantity (K Units),
- Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 67. Cone Drive Recent Developments/Updates
- Table 68. Guohua Hengyuan Tech Dev Co., Ltd. Basic Information, Manufacturing Base and Competitors
- Table 69. Guohua Hengyuan Tech Dev Co., Ltd. Major Business
- Table 70. Guohua Hengyuan Tech Dev Co., Ltd. Strain Wave Gears for Industrial Robots Product and Services
- Table 71. Guohua Hengyuan Tech Dev Co., Ltd. Strain Wave Gears for Industrial Robots Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 72. Guohua Hengyuan Tech Dev Co., Ltd. Recent Developments/Updates
- Table 73. LI-MING Machinery Co., Ltd. Basic Information, Manufacturing Base and



Competitors

Table 74. LI-MING Machinery Co., Ltd. Major Business

Table 75. LI-MING Machinery Co., Ltd. Strain Wave Gears for Industrial Robots Product and Services

Table 76. LI-MING Machinery Co., Ltd. Strain Wave Gears for Industrial Robots Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 77. LI-MING Machinery Co., Ltd. Recent Developments/Updates

Table 78. Global Strain Wave Gears for Industrial Robots Sales Quantity by Manufacturer (2018-2023) & (K Units)

Table 79. Global Strain Wave Gears for Industrial Robots Revenue by Manufacturer (2018-2023) & (USD Million)

Table 80. Global Strain Wave Gears for Industrial Robots Average Price by Manufacturer (2018-2023) & (US\$/Unit)

Table 81. Market Position of Manufacturers in Strain Wave Gears for Industrial Robots, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2022

Table 82. Head Office and Strain Wave Gears for Industrial Robots Production Site of Key Manufacturer

Table 83. Strain Wave Gears for Industrial Robots Market: Company Product Type Footprint

Table 84. Strain Wave Gears for Industrial Robots Market: Company Product Application Footprint

Table 85. Strain Wave Gears for Industrial Robots New Market Entrants and Barriers to Market Entry

Table 86. Strain Wave Gears for Industrial Robots Mergers, Acquisition, Agreements, and Collaborations

Table 87. Global Strain Wave Gears for Industrial Robots Sales Quantity by Region (2018-2023) & (K Units)

Table 88. Global Strain Wave Gears for Industrial Robots Sales Quantity by Region (2024-2029) & (K Units)

Table 89. Global Strain Wave Gears for Industrial Robots Consumption Value by Region (2018-2023) & (USD Million)

Table 90. Global Strain Wave Gears for Industrial Robots Consumption Value by Region (2024-2029) & (USD Million)

Table 91. Global Strain Wave Gears for Industrial Robots Average Price by Region (2018-2023) & (US\$/Unit)

Table 92. Global Strain Wave Gears for Industrial Robots Average Price by Region (2024-2029) & (US\$/Unit)

Table 93. Global Strain Wave Gears for Industrial Robots Sales Quantity by Type



(2018-2023) & (K Units)

Table 94. Global Strain Wave Gears for Industrial Robots Sales Quantity by Type (2024-2029) & (K Units)

Table 95. Global Strain Wave Gears for Industrial Robots Consumption Value by Type (2018-2023) & (USD Million)

Table 96. Global Strain Wave Gears for Industrial Robots Consumption Value by Type (2024-2029) & (USD Million)

Table 97. Global Strain Wave Gears for Industrial Robots Average Price by Type (2018-2023) & (US\$/Unit)

Table 98. Global Strain Wave Gears for Industrial Robots Average Price by Type (2024-2029) & (US\$/Unit)

Table 99. Global Strain Wave Gears for Industrial Robots Sales Quantity by Application (2018-2023) & (K Units)

Table 100. Global Strain Wave Gears for Industrial Robots Sales Quantity by Application (2024-2029) & (K Units)

Table 101. Global Strain Wave Gears for Industrial Robots Consumption Value by Application (2018-2023) & (USD Million)

Table 102. Global Strain Wave Gears for Industrial Robots Consumption Value by Application (2024-2029) & (USD Million)

Table 103. Global Strain Wave Gears for Industrial Robots Average Price by Application (2018-2023) & (US\$/Unit)

Table 104. Global Strain Wave Gears for Industrial Robots Average Price by Application (2024-2029) & (US\$/Unit)

Table 105. North America Strain Wave Gears for Industrial Robots Sales Quantity by Type (2018-2023) & (K Units)

Table 106. North America Strain Wave Gears for Industrial Robots Sales Quantity by Type (2024-2029) & (K Units)

Table 107. North America Strain Wave Gears for Industrial Robots Sales Quantity by Application (2018-2023) & (K Units)

Table 108. North America Strain Wave Gears for Industrial Robots Sales Quantity by Application (2024-2029) & (K Units)

Table 109. North America Strain Wave Gears for Industrial Robots Sales Quantity by Country (2018-2023) & (K Units)

Table 110. North America Strain Wave Gears for Industrial Robots Sales Quantity by Country (2024-2029) & (K Units)

Table 111. North America Strain Wave Gears for Industrial Robots Consumption Value by Country (2018-2023) & (USD Million)

Table 112. North America Strain Wave Gears for Industrial Robots Consumption Value by Country (2024-2029) & (USD Million)



Table 113. Europe Strain Wave Gears for Industrial Robots Sales Quantity by Type (2018-2023) & (K Units)

Table 114. Europe Strain Wave Gears for Industrial Robots Sales Quantity by Type (2024-2029) & (K Units)

Table 115. Europe Strain Wave Gears for Industrial Robots Sales Quantity by Application (2018-2023) & (K Units)

Table 116. Europe Strain Wave Gears for Industrial Robots Sales Quantity by Application (2024-2029) & (K Units)

Table 117. Europe Strain Wave Gears for Industrial Robots Sales Quantity by Country (2018-2023) & (K Units)

Table 118. Europe Strain Wave Gears for Industrial Robots Sales Quantity by Country (2024-2029) & (K Units)

Table 119. Europe Strain Wave Gears for Industrial Robots Consumption Value by Country (2018-2023) & (USD Million)

Table 120. Europe Strain Wave Gears for Industrial Robots Consumption Value by Country (2024-2029) & (USD Million)

Table 121. Asia-Pacific Strain Wave Gears for Industrial Robots Sales Quantity by Type (2018-2023) & (K Units)

Table 122. Asia-Pacific Strain Wave Gears for Industrial Robots Sales Quantity by Type (2024-2029) & (K Units)

Table 123. Asia-Pacific Strain Wave Gears for Industrial Robots Sales Quantity by Application (2018-2023) & (K Units)

Table 124. Asia-Pacific Strain Wave Gears for Industrial Robots Sales Quantity by Application (2024-2029) & (K Units)

Table 125. Asia-Pacific Strain Wave Gears for Industrial Robots Sales Quantity by Region (2018-2023) & (K Units)

Table 126. Asia-Pacific Strain Wave Gears for Industrial Robots Sales Quantity by Region (2024-2029) & (K Units)

Table 127. Asia-Pacific Strain Wave Gears for Industrial Robots Consumption Value by Region (2018-2023) & (USD Million)

Table 128. Asia-Pacific Strain Wave Gears for Industrial Robots Consumption Value by Region (2024-2029) & (USD Million)

Table 129. South America Strain Wave Gears for Industrial Robots Sales Quantity by Type (2018-2023) & (K Units)

Table 130. South America Strain Wave Gears for Industrial Robots Sales Quantity by Type (2024-2029) & (K Units)

Table 131. South America Strain Wave Gears for Industrial Robots Sales Quantity by Application (2018-2023) & (K Units)

Table 132. South America Strain Wave Gears for Industrial Robots Sales Quantity by



Application (2024-2029) & (K Units)

Table 133. South America Strain Wave Gears for Industrial Robots Sales Quantity by Country (2018-2023) & (K Units)

Table 134. South America Strain Wave Gears for Industrial Robots Sales Quantity by Country (2024-2029) & (K Units)

Table 135. South America Strain Wave Gears for Industrial Robots Consumption Value by Country (2018-2023) & (USD Million)

Table 136. South America Strain Wave Gears for Industrial Robots Consumption Value by Country (2024-2029) & (USD Million)

Table 137. Middle East & Africa Strain Wave Gears for Industrial Robots Sales Quantity by Type (2018-2023) & (K Units)

Table 138. Middle East & Africa Strain Wave Gears for Industrial Robots Sales Quantity by Type (2024-2029) & (K Units)

Table 139. Middle East & Africa Strain Wave Gears for Industrial Robots Sales Quantity by Application (2018-2023) & (K Units)

Table 140. Middle East & Africa Strain Wave Gears for Industrial Robots Sales Quantity by Application (2024-2029) & (K Units)

Table 141. Middle East & Africa Strain Wave Gears for Industrial Robots Sales Quantity by Region (2018-2023) & (K Units)

Table 142. Middle East & Africa Strain Wave Gears for Industrial Robots Sales Quantity by Region (2024-2029) & (K Units)

Table 143. Middle East & Africa Strain Wave Gears for Industrial Robots Consumption Value by Region (2018-2023) & (USD Million)

Table 144. Middle East & Africa Strain Wave Gears for Industrial Robots Consumption Value by Region (2024-2029) & (USD Million)

Table 145. Strain Wave Gears for Industrial Robots Raw Material

Table 146. Key Manufacturers of Strain Wave Gears for Industrial Robots Raw Materials

Table 147. Strain Wave Gears for Industrial Robots Typical Distributors

Table 148. Strain Wave Gears for Industrial Robots Typical Customers



List Of Figures

LIST OF FIGURES

Figure 1. Strain Wave Gears for Industrial Robots Picture

Figure 2. Global Strain Wave Gears for Industrial Robots Consumption Value by Type, (USD Million), 2018 & 2022 & 2029

Figure 3. Global Strain Wave Gears for Industrial Robots Consumption Value Market Share by Type in 2022

Figure 4. Cup Style Examples

Figure 5. Hat Style Examples

Figure 6. Pancake Style Examples

Figure 7. Global Strain Wave Gears for Industrial Robots Consumption Value by Application, (USD Million), 2018 & 2022 & 2029

Figure 8. Global Strain Wave Gears for Industrial Robots Consumption Value Market Share by Application in 2022

Figure 9. Multi-joint Robots Examples

Figure 10. Coordinate Robots Examples

Figure 11. Parallel Robots Examples

Figure 12. SCARA Robots Examples

Figure 13. Collaborative Robots Examples

Figure 14. Global Strain Wave Gears for Industrial Robots Consumption Value, (USD Million): 2018 & 2022 & 2029

Figure 15. Global Strain Wave Gears for Industrial Robots Consumption Value and Forecast (2018-2029) & (USD Million)

Figure 16. Global Strain Wave Gears for Industrial Robots Sales Quantity (2018-2029) & (K Units)

Figure 17. Global Strain Wave Gears for Industrial Robots Average Price (2018-2029) & (US\$/Unit)

Figure 18. Global Strain Wave Gears for Industrial Robots Sales Quantity Market Share by Manufacturer in 2022

Figure 19. Global Strain Wave Gears for Industrial Robots Consumption Value Market Share by Manufacturer in 2022

Figure 20. Producer Shipments of Strain Wave Gears for Industrial Robots by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2021

Figure 21. Top 3 Strain Wave Gears for Industrial Robots Manufacturer (Consumption Value) Market Share in 2022

Figure 22. Top 6 Strain Wave Gears for Industrial Robots Manufacturer (Consumption Value) Market Share in 2022



Figure 23. Global Strain Wave Gears for Industrial Robots Sales Quantity Market Share by Region (2018-2029)

Figure 24. Global Strain Wave Gears for Industrial Robots Consumption Value Market Share by Region (2018-2029)

Figure 25. North America Strain Wave Gears for Industrial Robots Consumption Value (2018-2029) & (USD Million)

Figure 26. Europe Strain Wave Gears for Industrial Robots Consumption Value (2018-2029) & (USD Million)

Figure 27. Asia-Pacific Strain Wave Gears for Industrial Robots Consumption Value (2018-2029) & (USD Million)

Figure 28. South America Strain Wave Gears for Industrial Robots Consumption Value (2018-2029) & (USD Million)

Figure 29. Middle East & Africa Strain Wave Gears for Industrial Robots Consumption Value (2018-2029) & (USD Million)

Figure 30. Global Strain Wave Gears for Industrial Robots Sales Quantity Market Share by Type (2018-2029)

Figure 31. Global Strain Wave Gears for Industrial Robots Consumption Value Market Share by Type (2018-2029)

Figure 32. Global Strain Wave Gears for Industrial Robots Average Price by Type (2018-2029) & (US\$/Unit)

Figure 33. Global Strain Wave Gears for Industrial Robots Sales Quantity Market Share by Application (2018-2029)

Figure 34. Global Strain Wave Gears for Industrial Robots Consumption Value Market Share by Application (2018-2029)

Figure 35. Global Strain Wave Gears for Industrial Robots Average Price by Application (2018-2029) & (US\$/Unit)

Figure 36. North America Strain Wave Gears for Industrial Robots Sales Quantity Market Share by Type (2018-2029)

Figure 37. North America Strain Wave Gears for Industrial Robots Sales Quantity Market Share by Application (2018-2029)

Figure 38. North America Strain Wave Gears for Industrial Robots Sales Quantity Market Share by Country (2018-2029)

Figure 39. North America Strain Wave Gears for Industrial Robots Consumption Value Market Share by Country (2018-2029)

Figure 40. United States Strain Wave Gears for Industrial Robots Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 41. Canada Strain Wave Gears for Industrial Robots Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 42. Mexico Strain Wave Gears for Industrial Robots Consumption Value and



Growth Rate (2018-2029) & (USD Million)

Figure 43. Europe Strain Wave Gears for Industrial Robots Sales Quantity Market Share by Type (2018-2029)

Figure 44. Europe Strain Wave Gears for Industrial Robots Sales Quantity Market Share by Application (2018-2029)

Figure 45. Europe Strain Wave Gears for Industrial Robots Sales Quantity Market Share by Country (2018-2029)

Figure 46. Europe Strain Wave Gears for Industrial Robots Consumption Value Market Share by Country (2018-2029)

Figure 47. Germany Strain Wave Gears for Industrial Robots Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 48. France Strain Wave Gears for Industrial Robots Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 49. United Kingdom Strain Wave Gears for Industrial Robots Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 50. Russia Strain Wave Gears for Industrial Robots Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 51. Italy Strain Wave Gears for Industrial Robots Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 52. Asia-Pacific Strain Wave Gears for Industrial Robots Sales Quantity Market Share by Type (2018-2029)

Figure 53. Asia-Pacific Strain Wave Gears for Industrial Robots Sales Quantity Market Share by Application (2018-2029)

Figure 54. Asia-Pacific Strain Wave Gears for Industrial Robots Sales Quantity Market Share by Region (2018-2029)

Figure 55. Asia-Pacific Strain Wave Gears for Industrial Robots Consumption Value Market Share by Region (2018-2029)

Figure 56. China Strain Wave Gears for Industrial Robots Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 57. Japan Strain Wave Gears for Industrial Robots Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 58. Korea Strain Wave Gears for Industrial Robots Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 59. India Strain Wave Gears for Industrial Robots Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 60. Southeast Asia Strain Wave Gears for Industrial Robots Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 61. Australia Strain Wave Gears for Industrial Robots Consumption Value and Growth Rate (2018-2029) & (USD Million)



Figure 62. South America Strain Wave Gears for Industrial Robots Sales Quantity Market Share by Type (2018-2029)

Figure 63. South America Strain Wave Gears for Industrial Robots Sales Quantity Market Share by Application (2018-2029)

Figure 64. South America Strain Wave Gears for Industrial Robots Sales Quantity Market Share by Country (2018-2029)

Figure 65. South America Strain Wave Gears for Industrial Robots Consumption Value Market Share by Country (2018-2029)

Figure 66. Brazil Strain Wave Gears for Industrial Robots Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 67. Argentina Strain Wave Gears for Industrial Robots Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 68. Middle East & Africa Strain Wave Gears for Industrial Robots Sales Quantity Market Share by Type (2018-2029)

Figure 69. Middle East & Africa Strain Wave Gears for Industrial Robots Sales Quantity Market Share by Application (2018-2029)

Figure 70. Middle East & Africa Strain Wave Gears for Industrial Robots Sales Quantity Market Share by Region (2018-2029)

Figure 71. Middle East & Africa Strain Wave Gears for Industrial Robots Consumption Value Market Share by Region (2018-2029)

Figure 72. Turkey Strain Wave Gears for Industrial Robots Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 73. Egypt Strain Wave Gears for Industrial Robots Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 74. Saudi Arabia Strain Wave Gears for Industrial Robots Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 75. South Africa Strain Wave Gears for Industrial Robots Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 76. Strain Wave Gears for Industrial Robots Market Drivers

Figure 77. Strain Wave Gears for Industrial Robots Market Restraints

Figure 78. Strain Wave Gears for Industrial Robots Market Trends

Figure 79. Porters Five Forces Analysis

Figure 80. Manufacturing Cost Structure Analysis of Strain Wave Gears for Industrial Robots in 2022

Figure 81. Manufacturing Process Analysis of Strain Wave Gears for Industrial Robots

Figure 82. Strain Wave Gears for Industrial Robots Industrial Chain

Figure 83. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 84. Direct Channel Pros & Cons

Figure 85. Indirect Channel Pros & Cons



Figure 86. Methodology

Figure 87. Research Process and Data Source



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