

Global Strain Wave Gearing Devices Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Strain Wave Gearing Devices market size will reach 516.34 Million USD in 2025 and is projected to reach 796.60 Million USD by 2032, with a CAGR of 6.39% (2025-2032). Notably, the China Strain Wave Gearing Devices market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Strain wave gearing devices, also known as harmonic drives, are mechanical gear systems that utilize an elastic deformation principle to achieve high gear reduction ratios in a compact and lightweight package. These devices consist of three main components: a circular spline (outer ring), a flexible metal spline (flexspline), and an elliptical shape wave generator (wave generator). The flexspline is slightly smaller in diameter than the circular spline and has teeth on its inner surface. The wave generator is connected to the flexspline and produces an elliptical motion, causing the teeth of the flexspline to engage with the teeth of the circular spline. As the wave generator rotates, it deforms the flexspline, causing it to flex and generate a relative motion between the flexspline and the circular spline. This results in a gear reduction, with the output shaft rotating at a much slower speed than the input shaft. Strain wave gearing devices are known for their high precision, zero-backlash operation, and compact design, making them suitable for applications requiring precise motion control in limited space, such as robotics, aerospace, medical devices, and industrial automation.

The major global manufacturers of Strain Wave Gearing Devices include HDSI, Leaderdrive, Zhejiang Laifual, Shenzhen Han's Motion Technology, Nidec-Shimpo, KOFON, Beijing CTKM Harmonic Drive, BENRUN Robot, BHDI, Too Eph Transmission Technology, Cone Drive, Guohua Hengyuan Tech Dev Co., Ltd., LI-MING Machinery Co., Ltd., etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Strain Wave Gearing Devices. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Strain Wave Gearing Devices market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Strain Wave Gearing Devices market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Strain Wave Gearing Devices industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Strain Wave Gearing Devices Include:

HDSI

Leaderdrive

Zhejiang Laifual

Shenzhen Han's Motion Technology

Nidec-Shimpo

KOFON

Beijing CTKM Harmonic Drive

BENRUN Robot

BHDI

Too Eph Transmission Technology

Cone Drive

Guohua Hengyuan Tech Dev Co., Ltd.

LI-MING Machinery Co., Ltd.

Strain Wave Gearing Devices Product Segment Include:

Cup Style

Hat Style

Pancake Style

Strain Wave Gearing Devices Product Application Include:

Industrial Robot

Semiconductor Equipment

Flat Panel Equipment

Machine Tools

Optical Machine

Printing, Bookbinding and Paper Machine

Metal Working Machine

Medical Equipment

Space Equipment

Others

Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

Chapter 2: Global Strain Wave Gearing Devices Industry PESTEL Analysis

Chapter 3: Global Strain Wave Gearing Devices Industry Porter's Five Forces Analysis

Chapter 4: Global Strain Wave Gearing Devices Major Regional Market Size (Revenue, Sales, Price) and Forecast Analysis

Chapter 5: Global Strain Wave Gearing Devices Market Size and Forecast by Type and Application Analysis

Chapter 6: North America Strain Wave Gearing Devices Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 7: Europe Strain Wave Gearing Devices Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 8: China Strain Wave Gearing Devices Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 9: APAC (Excl. China) Strain Wave Gearing Devices Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 10: Latin America Strain Wave Gearing Devices Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 11: Middle East and Africa Strain Wave Gearing Devices Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 12: Global Strain Wave Gearing Devices Competitive Analysis of Key Manufacturers (Sales, Revenue, Market Share, Price, Regional Distribution and Industry Concentration)

Chapter 13: Key Company Profiles (Product Portfolio, Sales, Revenue, Price and Gross Margin)

Chapter 14: Industrial Chain Analysis, Include Raw Material Suppliers, Distributors and Customers

Chapter 15: Research Findings and Conclusion

Chapter 16: Methodology and Data Sources

Contents

1 STRAIN WAVE GEARING DEVICES MARKET OVERVIEW

- 1.1 Product Definition and Statistical Scope
- 1.2 Strain Wave Gearing Devices Product by Type
 - 1.2.1 Cup Style
 - 1.2.2 Hat Style
 - 1.2.3 Pancake Style
- 1.3 Strain Wave Gearing Devices Product by Application
 - 1.3.1 Industrial Robot
 - 1.3.2 Semiconductor Equipment
 - 1.3.3 Flat Panel Equipment
 - 1.3.4 Machine Tools
 - 1.3.5 Optical Machine
 - 1.3.6 Printing, Bookbinding and Paper Machine
 - 1.3.7 Metal Working Machine
 - 1.3.8 Medical Equipment
 - 1.3.9 Space Equipment
 - 1.3.10 Others
- 1.4 Global Strain Wave Gearing Devices Market Revenue and Sales Analysis
 - 1.4.1 Global Strain Wave Gearing Devices Revenue Market Size Analysis (2020-2032)
 - 1.4.2 Global Strain Wave Gearing Devices Sales Market Size Analysis (2020-2032)
 - 1.4.3 Global Strain Wave Gearing Devices Market Sales Price Trend Analysis (2020-2032)
- 1.5 Strain Wave Gearing Devices Industry Trends and Innovation
 - 1.5.1 Strain Wave Gearing Devices Industry Trends and Innovation
 - 1.5.2 Strain Wave Gearing Devices Market Drivers and Challenges

2 STRAIN WAVE GEARING DEVICES MARKET PESTEL ANALYSIS

- 2.1 Political Factors Analysis
- 2.2 Economic Factors Analysis
- 2.3 Social Factors Analysis
- 2.4 Technological Factors Analysis
- 2.5 Environmental Factors Analysis
- 2.6 Legal Factors Analysis

3 STRAIN WAVE GEARING DEVICES MARKET PORTER'S FIVE FORCES

ANALYSIS

- 3.1 Competitive Rivalry
- 3.2 Threat of New Entrants
- 3.3 Bargaining Power of Suppliers
- 3.4 Bargaining Power of Buyers
- 3.5 Threat of Substitutes

4 GLOBAL STRAIN WAVE GEARING DEVICES MARKET ANALYSIS BY REGIONS

- 4.1 Strain Wave Gearing Devices Overall Market: 2024 VS 2025 VS 2032
- 4.2 Global Strain Wave Gearing Devices Revenue and Forecast Analysis (2020-2032)
 - 4.2.1 Global Strain Wave Gearing Devices Revenue and Market Share by Region (2020-2025)
 - 4.2.2 Global Strain Wave Gearing Devices Revenue and Market Share Forecast by Region (2026-2032)
- 4.3 Global Strain Wave Gearing Devices Sales and Forecast Analysis (2020-2032)
 - 4.3.1 Global Strain Wave Gearing Devices Sales and Market Share by Region (2020-2025)
 - 4.3.2 Global Strain Wave Gearing Devices Sales and Market Share Forecast by Region (2026-2032)
- 4.4 Global Strain Wave Gearing Devices Sales Price Trend Analysis (2020-2032)

5 GLOBAL STRAIN WAVE GEARING DEVICES MARKET SIZE BY TYPE AND APPLICATION

- 5.1 Global Strain Wave Gearing Devices Market Size by Type
 - 5.1.1 Global Strain Wave Gearing Devices Revenue and Forecast Analysis by Type (2020-2032)
 - 5.1.2 Global Strain Wave Gearing Devices Sales and Forecast Analysis by Type (2020-2032)
- 5.2 Global Strain Wave Gearing Devices Market Size by Application
 - 5.2.1 Global Strain Wave Gearing Devices Revenue and Forecast Analysis by Application (2020-2032)
 - 5.2.2 Global Strain Wave Gearing Devices Sales and Forecast Analysis by Application (2020-2032)

6 NORTH AMERICA

6.1 North America Strain Wave Gearing Devices Market Size and Growth Rate Analysis (2020-2032)

6.2 North America Key Manufacturers Analysis

6.3 North America Strain Wave Gearing Devices Market Size by Type

6.3.1 North America Strain Wave Gearing Devices Sales by Type (2020-2032)

6.3.2 North America Strain Wave Gearing Devices Revenue by Type (2020-2032)

6.4 North America Strain Wave Gearing Devices Market Size by Application

6.4.1 North America Strain Wave Gearing Devices Sales by Application (2020-2032)

6.4.2 North America Strain Wave Gearing Devices Revenue by Application (2020-2032)

6.5 North America Strain Wave Gearing Devices Market Size by Country

6.5.1 US

6.5.2 Canada

7 EUROPE

7.1 Europe Strain Wave Gearing Devices Market Size and Growth Rate Analysis (2020-2032)

7.2 Europe Key Manufacturers Analysis

7.3 Europe Strain Wave Gearing Devices Market Size by Type

7.3.1 Europe Strain Wave Gearing Devices Sales by Type (2020-2032)

7.3.2 Europe Strain Wave Gearing Devices Revenue by Type (2020-2032)

7.4 Europe Strain Wave Gearing Devices Market Size by Application

7.4.1 Europe Strain Wave Gearing Devices Sales by Application (2020-2032)

7.4.2 Europe Strain Wave Gearing Devices Revenue by Application (2020-2032)

7.5 Europe Strain Wave Gearing Devices Market Size by Country

7.5.1 Germany

7.5.2 France

7.5.3 United Kingdom

7.5.4 Italy

7.5.5 Spain

7.5.6 Benelux

8 CHINA

8.1 China Strain Wave Gearing Devices Market Size and Growth Rate Analysis (2020-2032)

8.2 China Key Manufacturers Analysis

8.3 China Strain Wave Gearing Devices Market Size by Type

- 8.3.1 China Strain Wave Gearing Devices Sales by Type (2020-2032)
- 8.3.2 China Strain Wave Gearing Devices Revenue by Type (2020-2032)
- 8.4 China Strain Wave Gearing Devices Market Size by Application
 - 8.4.1 China Strain Wave Gearing Devices Sales by Application (2020-2032)
 - 8.4.2 China Strain Wave Gearing Devices Revenue by Application (2020-2032)

9 APAC (EXCL. CHINA)

- 9.1 APAC (excl. China) Strain Wave Gearing Devices Market Size and Growth Rate Analysis (2020-2032)
- 9.2 APAC (excl. China) Key Manufacturers Analysis
- 9.3 APAC (excl. China) Strain Wave Gearing Devices Market Size by Type
 - 9.3.1 APAC (excl. China) Strain Wave Gearing Devices Sales by Type (2020-2032)
 - 9.3.2 APAC (excl. China) Strain Wave Gearing Devices Revenue by Type (2020-2032)
- 9.4 APAC (excl. China) Strain Wave Gearing Devices Market Size by Application
 - 9.4.1 APAC (excl. China) Strain Wave Gearing Devices Sales by Application (2020-2032)
 - 9.4.2 APAC (excl. China) Strain Wave Gearing Devices Revenue by Application (2020-2032)
- 9.5 APAC (excl. China) Strain Wave Gearing Devices Market Size by Country
 - 9.5.1 Japan
 - 9.5.2 South Korea
 - 9.5.3 India
 - 9.5.4 Australia
 - 9.5.5 Southeast Asia

10 LATIN AMERICA

- 10.1 Latin America Strain Wave Gearing Devices Market Size and Growth Rate Analysis (2020-2032)
- 10.2 Latin America Key Manufacturers Analysis
- 10.3 Latin America Strain Wave Gearing Devices Market Size by Type
 - 10.3.1 Latin America Strain Wave Gearing Devices Sales by Type (2020-2032)
 - 10.3.2 Latin America Strain Wave Gearing Devices Revenue by Type (2020-2032)
- 10.4 Latin America Strain Wave Gearing Devices Market Size by Application
 - 10.4.1 Latin America Strain Wave Gearing Devices Sales by Application (2020-2032)
 - 10.4.2 Latin America Strain Wave Gearing Devices Revenue by Application (2020-2032)
- 10.5 Latin America Strain Wave Gearing Devices Market Size by Country

10.6 Latin America Strain Wave Gearing Devices Market Size by Country

10.6.1 Mexico

10.6.2 Brazil

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Strain Wave Gearing Devices Market Size and Growth Rate Analysis (2020-2032)

11.2 Middle East & Africa Key Manufacturers Analysis

11.3 Middle East & Africa Strain Wave Gearing Devices Market Size by Type

11.3.1 Middle East & Africa Strain Wave Gearing Devices Sales by Type (2020-2032)

11.3.2 Middle East & Africa Strain Wave Gearing Devices Revenue by Type (2020-2032)

11.4 Middle East & Africa Strain Wave Gearing Devices Market Size by Application

11.4.1 Middle East & Africa Strain Wave Gearing Devices Sales by Application (2020-2032)

11.4.2 Middle East & Africa Strain Wave Gearing Devices Revenue by Application (2020-2032)

11.5 Middle East Strain Wave Gearing Devices Market Size by Country

11.5.1 Saudi Arabia

11.5.2 South Africa

12 COMPETITION BY MANUFACTURERS

12.1 Global Strain Wave Gearing Devices Market Sales, Revenue and Price by Key Manufacturers (2021-2025)

12.1.1 Global Strain Wave Gearing Devices Market Sales by Key Manufacturers (2021-2025)

12.1.2 Global Strain Wave Gearing Devices Market Revenue by Key Manufacturers (2021-2025)

12.1.3 Global Strain Wave Gearing Devices Average Sales Price by Manufacturers (2021-2025)

12.2 Strain Wave Gearing Devices Competitive Landscape Analysis and Market Dynamic

12.2.1 Strain Wave Gearing Devices Competitive Landscape Analysis

12.2.2 Global Key Manufacturers Headquarter Location and Key Area Sales

12.2.3 Market Dynamic

13 KEY COMPANIES ANALYSIS

13.1 HDSI

13.1.1 HDSI Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.1.2 HDSI Strain Wave Gearing Devices Product Portfolio

13.1.3 HDSI Strain Wave Gearing Devices Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.2 Leaderdrive

13.2.1 Leaderdrive Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.2.2 Leaderdrive Strain Wave Gearing Devices Product Portfolio

13.2.3 Leaderdrive Strain Wave Gearing Devices Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.3 Zhejiang Laifual

13.3.1 Zhejiang Laifual Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.3.2 Zhejiang Laifual Strain Wave Gearing Devices Product Portfolio

13.3.3 Zhejiang Laifual Strain Wave Gearing Devices Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.4 Shenzhen Han's Motion Technology

13.4.1 Shenzhen Han's Motion Technology Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.4.2 Shenzhen Han's Motion Technology Strain Wave Gearing Devices Product Portfolio

13.4.3 Shenzhen Han's Motion Technology Strain Wave Gearing Devices Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.5 Nidec-Shimpo

13.5.1 Nidec-Shimpo Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.5.2 Nidec-Shimpo Strain Wave Gearing Devices Product Portfolio

13.5.3 Nidec-Shimpo Strain Wave Gearing Devices Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.6 KOFON

13.6.1 KOFON Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.6.2 KOFON Strain Wave Gearing Devices Product Portfolio

13.6.3 KOFON Strain Wave Gearing Devices Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.7 Beijing CTKM Harmonic Drive

13.7.1 Beijing CTKM Harmonic Drive Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.7.2 Beijing CTKM Harmonic Drive Strain Wave Gearing Devices Product Portfolio

13.7.3 Beijing CTKM Harmonic Drive Strain Wave Gearing Devices Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.8 BENRUN Robot

13.8.1 BENRUN Robot Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.8.2 BENRUN Robot Strain Wave Gearing Devices Product Portfolio

13.8.3 BENRUN Robot Strain Wave Gearing Devices Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.9 BHD

13.9.1 BHD Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.9.2 BHD Strain Wave Gearing Devices Product Portfolio

13.9.3 BHD Strain Wave Gearing Devices Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.10 Too Eph Transmission Technology

13.10.1 Too Eph Transmission Technology Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.10.2 Too Eph Transmission Technology Strain Wave Gearing Devices Product Portfolio

13.10.3 Too Eph Transmission Technology Strain Wave Gearing Devices Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.11 Cone Drive

13.11.1 Cone Drive Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.11.2 Cone Drive Strain Wave Gearing Devices Product Portfolio

13.11.3 Cone Drive Strain Wave Gearing Devices Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.12 Guohua Hengyuan Tech Dev Co., Ltd.

13.12.1 Guohua Hengyuan Tech Dev Co., Ltd. Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.12.2 Guohua Hengyuan Tech Dev Co., Ltd. Strain Wave Gearing Devices Product Portfolio

13.12.3 Guohua Hengyuan Tech Dev Co., Ltd. Strain Wave Gearing Devices Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.13 LI-MING Machinery Co., Ltd.

13.13.1 LI-MING Machinery Co., Ltd. Basic Company Profile (Employees, Areas

Service, Competitors and Contact Information)

13.13.2 LI-MING Machinery Co., Ltd. Strain Wave Gearing Devices Product Portfolio

13.13.3 LI-MING Machinery Co., Ltd. Strain Wave Gearing Devices Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

14 INDUSTRY CHAIN ANALYSIS

14.1 Strain Wave Gearing Devices Industry Chain Analysis

14.2 Strain Wave Gearing Devices Industry Raw Material and Suppliers Analysis

14.2.1 Strain Wave Gearing Devices Key Raw Material Supply Analysis

14.2.2 Raw Material Suppliers and Contact Information

14.3 Strain Wave Gearing Devices Typical Downstream Customers

14.4 Strain Wave Gearing Devices Sales Channel Analysis

15 RESEARCH FINDINGS AND CONCLUSION

16 METHODOLOGY AND DATA SOURCE

16.1 Methodology/Research Approach

16.2 Research Scope

16.3 Benchmarks and Assumptions

16.4 Data Source

16.4.1 Primary Sources

16.4.2 Secondary Sources

16.5 Data Cross Validation

16.6 Disclaimer

List Of Tables

LIST OF TABLES

Table 1: Global Strain Wave Gearing Devices Market Size Growth Rate by Type, 2024 VS 2025 VS 2032 (US\$ Million)

Table 2: Global Strain Wave Gearing Devices Market Size Growth Rate by Application, 2024 VS 2025 VS 2032 (US\$ Million)

Table 3: Strain Wave Gearing Devices Industry Development Status

Table 4: Strain Wave Gearing Devices Industry Development Trends

Table 5: Global Strain Wave Gearing Devices Market Size by Region in US\$ Million: 2024 VS 2025 VS 2032

Table 6: Global Strain Wave Gearing Devices Revenue by Region (2020-2025) & (US\$ Million)

Table 7: Global Strain Wave Gearing Devices Revenue Market Share by Region (2020-2025)

Table 8: Global Strain Wave Gearing Devices Revenue Forecast by Region (2026-2032) & (US\$ Million)

Table 9: Global Strain Wave Gearing Devices Revenue Market Share Forecast by Region (2026-2032)

Table 10: Global Strain Wave Gearing Devices Sales by Region (2020-2025) & (K Unit)

Table 11: Global Strain Wave Gearing Devices Sales Market Share by Region (2020-2025)

Table 12: Global Strain Wave Gearing Devices Sales Forecast by Region (2026-2032) & (K Unit)

Table 13: Global Strain Wave Gearing Devices Sales Market Share Forecast by Region (2026-2032)

Table 14: Global Strain Wave Gearing Devices Revenue Analysis by Type (2020-2025) & (US\$ Million)

Table 15: Global Strain Wave Gearing Devices Revenue Analysis Forecast by Type (2026-2032) & (US\$ Million)

Table 16: Global Strain Wave Gearing Devices Sales Analysis by Type (2020-2025) & (K Unit)

Table 17: Global Strain Wave Gearing Devices Sales Analysis Forecast by Type (2026-2032) & (K Unit)

Table 18: Global Strain Wave Gearing Devices Revenue Analysis by Application (2020-2025) & (US\$ Million)

Table 19: Global Strain Wave Gearing Devices Revenue Analysis Forecast by Application (2026-2032) & (US\$ Million)

Table 20: Global Strain Wave Gearing Devices Sales Analysis by Application

(2020-2025) & (K Unit)

Table 21: Global Strain Wave Gearing Devices Sales Analysis Forecast by Application (2026-2032) & (K Unit)

Table 22: Key Strain Wave Gearing Devices Players in North America

Table 23: North America Strain Wave Gearing Devices Sales by Type (2020-2025) & (K Unit)

Table 24: North America Strain Wave Gearing Devices Sales by Type (2026-2032) & (K Unit)

Table 25: North America Strain Wave Gearing Devices Revenue by Type (2020-2025) & (US\$ Million)

Table 26: North America Strain Wave Gearing Devices Revenue by Type (2026-2032) & (US\$ Million)

Table 27: North America Strain Wave Gearing Devices Sales by Application (2020-2025) & (K Unit)

Table 28: North America Strain Wave Gearing Devices Sales by Application (2026-2032) & (K Unit)

Table 29: North America Strain Wave Gearing Devices Revenue by Application (2020-2025) & (US\$ Million)

Table 30: North America Strain Wave Gearing Devices Revenue by Application (2026-2032) & (US\$ Million)

Table 31: North America Strain Wave Gearing Devices Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 32: North America Strain Wave Gearing Devices Revenue Market Size by Country (2026-2032) & (US\$ Million)

Table 33: North America Strain Wave Gearing Devices Sales Market Size by Country (2020-2025) & (K Unit)

Table 34: North America Strain Wave Gearing Devices Sales Market Size by Country (2026-2032) & (K Unit)

Table 35: Key Strain Wave Gearing Devices Players in Europe

Table 36: Europe Strain Wave Gearing Devices Sales by Type (2020-2025) & (K Unit)

Table 37: Europe Strain Wave Gearing Devices Sales by Type (2026-2032) & (K Unit)

Table 38: Europe Strain Wave Gearing Devices Revenue by Type (2020-2025) & (US\$ Million)

Table 39: Europe Strain Wave Gearing Devices Revenue by Type (2026-2032) & (US\$ Million)

Table 40: Europe Strain Wave Gearing Devices Sales by Application (2020-2025) & (K Unit)

Table 41: Europe Strain Wave Gearing Devices Sales by Application (2026-2032) & (K Unit)

Table 42: Europe Strain Wave Gearing Devices Revenue by Application (2020-2025) & (US\$ Million)

Table 43: Europe Strain Wave Gearing Devices Revenue by Application (2026-2032) & (US\$ Million)

Table 44: Europe Strain Wave Gearing Devices Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 45: Europe Strain Wave Gearing Devices Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 46: Europe Strain Wave Gearing Devices Sales Market Size by Country (2020-2025) & (K Unit)

Table 47: Europe Strain Wave Gearing Devices Sales Market Size Forecast by Country (2026-2032) & (K Unit)

Table 48: Key Strain Wave Gearing Devices Players in China

Table 49: China Strain Wave Gearing Devices Sales by Type (2020-2025) & (K Unit)

Table 50: China Strain Wave Gearing Devices Sales by Type (2026-2032) & (K Unit)

Table 51: China Strain Wave Gearing Devices Revenue by Type (2020-2025) & (US\$ Million)

Table 52: China Strain Wave Gearing Devices Revenue by Type (2026-2032) & (US\$ Million)

Table 53: China Strain Wave Gearing Devices Sales by Application (2020-2025) & (K Unit)

Table 54: China Strain Wave Gearing Devices Sales by Application (2026-2032) & (K Unit)

Table 55: China Strain Wave Gearing Devices Revenue by Application (2020-2025) & (US\$ Million)

Table 56: China Strain Wave Gearing Devices Revenue by Application (2026-2032) & (US\$ Million)

Table 57: Key Strain Wave Gearing Devices Players in APAC (excl. China)

Table 58: APAC (excl. China) Strain Wave Gearing Devices Sales by Type (2020-2025) & (K Unit)

Table 59: APAC (excl. China) Strain Wave Gearing Devices Sales by Type (2026-2032) & (K Unit)

Table 60: APAC (excl. China) Strain Wave Gearing Devices Revenue by Type (2020-2025) & (US\$ Million)

Table 61: APAC (excl. China) Strain Wave Gearing Devices Revenue by Type (2026-2032) & (US\$ Million)

Table 62: APAC (excl. China) Strain Wave Gearing Devices Sales by Application (2020-2025) & (K Unit)

Table 63: APAC (excl. China) Strain Wave Gearing Devices Sales by Application

(2026-2032) & (K Unit)

Table 64: APAC (excl. China) Strain Wave Gearing Devices Revenue by Application (2020-2025) & (US\$ Million)

Table 65: APAC (excl. China) Strain Wave Gearing Devices Revenue by Application (2026-2032) & (US\$ Million)

Table 66:: APAC (excl. China) Strain Wave Gearing Devices Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 67: APAC (excl. China) Strain Wave Gearing Devices Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 68: APAC (excl. China) Strain Wave Gearing Devices Sales Market Size by Country (2020-2025) & (K Unit)

Table 69: APAC (excl. China) Strain Wave Gearing Devices Sales Market Size Forecast by Country (2026-2032) & (K Unit)

Table 70: Key Strain Wave Gearing Devices Players in Latin America

Table 71: Latin America Strain Wave Gearing Devices Sales by Type (2020-2025) & (K Unit)

Table 72: Latin America Strain Wave Gearing Devices Sales by Type (2026-2032) & (K Unit)

Table 73: Latin America Strain Wave Gearing Devices Revenue by Type (2020-2025) & (US\$ Million)

Table 74: Latin America Strain Wave Gearing Devices Revenue by Type (2026-2032) & (US\$ Million)

Table 75: Latin America Strain Wave Gearing Devices Sales by Application (2020-2025) & (K Unit)

Table 76: Latin America Strain Wave Gearing Devices Sales by Application (2026-2032) & (K Unit)

Table 77: Latin America Strain Wave Gearing Devices Revenue by Application (2020-2025) & (US\$ Million)

Table 78: Latin America Strain Wave Gearing Devices Revenue by Application (2026-2032) & (US\$ Million)

Table 79: Latin America Strain Wave Gearing Devices Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 80: Latin America Strain Wave Gearing Devices Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 81: Latin America Strain Wave Gearing Devices Sales Market Size by Country (2020-2025) & (K Unit)

Table 82: Latin America Strain Wave Gearing Devices Sales Market Size Forecast by Country (2026-2032) & (K Unit)

Table 83: Key Strain Wave Gearing Devices Players in Middle East & Africa

- Table 84: Middle East & Africa Strain Wave Gearing Devices Sales by Type (2020-2025) & (K Unit)
- Table 85: Middle East & Africa Strain Wave Gearing Devices Sales by Type (2026-2032) & (K Unit)
- Table 86: Middle East & Africa Strain Wave Gearing Devices Revenue by Type (2020-2025) & (US\$ Million)
- Table 87: Middle East & Africa Strain Wave Gearing Devices Revenue by Type (2026-2032) & (US\$ Million)
- Table 88: Middle East & Africa Strain Wave Gearing Devices Sales by Application (2020-2025) & (K Unit)
- Table 89: Middle East & Africa Strain Wave Gearing Devices Sales by Application (2026-2032) & (K Unit)
- Table 90: Middle East & Africa Strain Wave Gearing Devices Revenue by Application (2020-2025) & (US\$ Million)
- Table 91: Middle East & Africa Strain Wave Gearing Devices Revenue by Application (2026-2032) & (US\$ Million)
- Table 92: Middle East & Africa Strain Wave Gearing Devices Revenue Market Size by Country (2020-2025) & (US\$ Million)
- Table 93: Middle East & Africa Strain Wave Gearing Devices Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)
- Table 94: Middle East & Africa Strain Wave Gearing Devices Sales Market Size by Country (2020-2025) & (K Unit)
- Table 95: Middle East & Africa Strain Wave Gearing Devices Sales Market Size Forecast by Country (2026-2032) & (K Unit)
- Table 96: Global Strain Wave Gearing Devices Market Sales by Key Manufacturers (2021-2025) & (K Unit)
- Table 97: Global Strain Wave Gearing Devices Sales Market Share by Key Manufacturers (2021-2025)
- Table 98: Global Strain Wave Gearing Devices Market Revenue by Key Manufacturers (2021-2025) & (US\$ Million)
- Table 99: Global Strain Wave Gearing Devices Revenue Market Share by Key Manufacturers (2021-2025)
- Table 100: Global Average Sales Price by Manufacturers (2021-2025) & (USD/Unit)
- Table 101: Global Key Manufacturers Headquarter Location and Key Area Sales
- Table 102: Market Mergers & Acquisitions, Expansion
- Table 103: HDSI Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)
- Table 104: HDSI Strain Wave Gearing Devices Product Portfolio
- Table 105: HDSI Strain Wave Gearing Devices Revenue (US\$ Million), Sales (K Unit),

Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 106: Leaderdrive Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 107: Leaderdrive Strain Wave Gearing Devices Product Portfolio

Table 108: Leaderdrive Strain Wave Gearing Devices Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 109: Zhejiang Laifual Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 110: Zhejiang Laifual Strain Wave Gearing Devices Product Portfolio

Table 111: Zhejiang Laifual Strain Wave Gearing Devices Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 112: Shenzhen Han's Motion Technology Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 113: Shenzhen Han's Motion Technology Strain Wave Gearing Devices Product Portfolio

Table 114: Shenzhen Han's Motion Technology Strain Wave Gearing Devices Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 115: Nidec-Shimpo Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 116: Nidec-Shimpo Strain Wave Gearing Devices Product Portfolio

Table 117: Nidec-Shimpo Strain Wave Gearing Devices Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 118: KOFON Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 119: KOFON Strain Wave Gearing Devices Product Portfolio

Table 120: KOFON Strain Wave Gearing Devices Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 121: Beijing CTKM Harmonic Drive Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 122: Beijing CTKM Harmonic Drive Strain Wave Gearing Devices Product Portfolio

Table 123: Beijing CTKM Harmonic Drive Strain Wave Gearing Devices Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 124: BENRUN Robot Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 125: BENRUN Robot Strain Wave Gearing Devices Product Portfolio

Table 126: BENRUN Robot Strain Wave Gearing Devices Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 127: BHDI Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 128: BHDI Strain Wave Gearing Devices Product Portfolio

Table 129: BHDI Strain Wave Gearing Devices Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 130: Too Eph Transmission Technology Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 131: Too Eph Transmission Technology Strain Wave Gearing Devices Product Portfolio

Table 132: Too Eph Transmission Technology Strain Wave Gearing Devices Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 133: Cone Drive Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 134: Cone Drive Strain Wave Gearing Devices Product Portfolio

Table 135: Cone Drive Strain Wave Gearing Devices Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 136: Guohua Hengyuan Tech Dev Co., Ltd. Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 137: Guohua Hengyuan Tech Dev Co., Ltd. Strain Wave Gearing Devices Product Portfolio

Table 138: Guohua Hengyuan Tech Dev Co., Ltd. Strain Wave Gearing Devices Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 139: LI-MING Machinery Co., Ltd. Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 140: LI-MING Machinery Co., Ltd. Strain Wave Gearing Devices Product Portfolio

Table 141: LI-MING Machinery Co., Ltd. Strain Wave Gearing Devices Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 142: Upstream Key Raw Material Price List

Table 143: Strain Wave Gearing Devices Raw Material Suppliers and Contact Information

Table 144: Strain Wave Gearing Devices Typical Customer List

Table 145: Strain Wave Gearing Devices Distributors List

List Of Figures

LIST OF FIGURES

- Figure 1: Strain Wave Gearing Devices Product Pictures
- Figure 2: Cup Style Picture Scope
- Figure 3: Hat Style Picture Scope
- Figure 4: Pancake Style Picture Scope
- Figure 5: Industrial Robot Picture Scope
- Figure 6: Semiconductor Equipment Picture Scope
- Figure 7: Flat Panel Equipment Picture Scope
- Figure 8: Machine Tools Picture Scope
- Figure 9: Optical Machine Picture Scope
- Figure 10: Printing, Bookbinding and Paper Machine Picture Scope
- Figure 11: Metal Working Machine Picture Scope
- Figure 12: Medical Equipment Picture Scope
- Figure 13: Space Equipment Picture Scope
- Figure 14: Others Picture Scope
- Figure 15: Global Strain Wave Gearing Devices Market Size Analysis: 2024 VS 2025 VS 2032 (US\$ Million)
- Figure 16: Global Strain Wave Gearing Devices Market Revenue and Growth Rate Analysis: (2020-2032) & (US\$ Million)
- Figure 17: Global Strain Wave Gearing Devices Market Sales and Growth Rate Analysis (2020-2032) & (K Unit)
- Figure 18: Global Strain Wave Gearing Devices Market Price Trend Analysis (2020-2032) & (USD/Unit)
- Figure 19: Global Strain Wave Gearing Devices Market Size by Region (2020-2032) & (US\$ Million)
- Figure 20: Global Strain Wave Gearing Devices Market Share Scenario by Region in Percentage: 2025 Versus 2032
- Figure 21: Global Strain Wave Gearing Devices Sales Price by Region (2020-2032) & (K Unit)
- Figure 22: North America Strain Wave Gearing Devices Market Size and Growth Rate (2020-2032) & (US\$ Million)
- Figure 23: North America Strain Wave Gearing Devices Revenue Market Share by Players in 2024
- Figure 24: North America Strain Wave Gearing Devices Sales Market Share by Type (2020-2032)
- Figure 25: North America Strain Wave Gearing Devices Revenue Market Share by Type

(2020-2032)

Figure 26:North America Strain Wave Gearing Devices Sales Market Share by Application (2020-2032)

Figure 27:North America Strain Wave Gearing Devices Revenue Market Share by Application (2020-2032)

Figure 28:US Strain Wave Gearing Devices Revenue (2020-2032) & (US\$ Million)

Figure 29:Canada Strain Wave Gearing Devices Revenue (2020-2032) & (US\$ Million)

Figure 30:Europe Strain Wave Gearing Devices Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 31:Europe Strain Wave Gearing Devices Revenue Market Share by Players in 2024

Figure 32:Europe Strain Wave Gearing Devices Sales Market Share by Type (2020-2032)

Figure 33:Europe Strain Wave Gearing Devices Revenue Market Share by Type (2020-2032)

Figure 34:Europe Strain Wave Gearing Devices Sales Market Share by Application (2020-2032)

Figure 35:Europe Strain Wave Gearing Devices Revenue Market Share by Application (2020-2032)

Figure 36:Germany Strain Wave Gearing Devices Revenue (2020-2032) & (US\$ Million)

Figure 37:France Strain Wave Gearing Devices Revenue (2020-2032) & (US\$ Million)

Figure 38:United Kingdom Strain Wave Gearing Devices Revenue (2020-2032) & (US\$ Million)

Figure 39:Italy Strain Wave Gearing Devices Revenue (2020-2032) & (US\$ Million)

Figure 40:Spain Strain Wave Gearing Devices Revenue (2020-2032) & (US\$ Million)

Figure 41:Benelux Strain Wave Gearing Devices Revenue (2020-2032) & (US\$ Million)

Figure 42:China Strain Wave Gearing Devices Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 43:China Strain Wave Gearing Devices Revenue Market Share by Players in 2024

Figure 44:China Strain Wave Gearing Devices Sales Market Share by Type (2020-2032)

Figure 45:China Strain Wave Gearing Devices Revenue Market Share by Type (2020-2032)

Figure 46:China Strain Wave Gearing Devices Sales Market Share by Application (2020-2032)

Figure 47:China Strain Wave Gearing Devices Revenue Market Share by Application (2020-2032)

Figure 48:APAC (excl. China) Strain Wave Gearing Devices Market Size and Growth

Rate (2020-2032) & (US\$ Million)

Figure 49:APAC (excl. China) Strain Wave Gearing Devices Revenue Market Share by Players in 2024

Figure 50:APAC (excl. China) Strain Wave Gearing Devices Sales Market Share by Type (2020-2032)

Figure 51:APAC (excl. China) Strain Wave Gearing Devices Revenue Market Share by Type (2020-2032)

Figure 52:APAC (excl. China) Strain Wave Gearing Devices Sales Market Share by Application (2020-2032)

Figure 53:APAC (excl. China) Strain Wave Gearing Devices Revenue Market Share by Application (2020-2032)

Figure 54:Japan Strain Wave Gearing Devices Revenue (2020-2032) & (US\$ Million)

Figure 55:South Korea Strain Wave Gearing Devices Revenue (2020-2032) & (US\$ Million)

Figure 56:India Strain Wave Gearing Devices Revenue (2020-2032) & (US\$ Million)

Figure 57:Australia Strain Wave Gearing Devices Revenue (2020-2032) & (US\$ Million)

Figure 58:Southeast Asia Strain Wave Gearing Devices Revenue (2020-2032) & (US\$ Million)

Figure 59:Latin America Strain Wave Gearing Devices Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 60:Latin America Strain Wave Gearing Devices Revenue Market Share by Players in 2024

Figure 61:Latin America Strain Wave Gearing Devices Sales Market Share by Type (2020-2032)

Figure 62:Latin America Strain Wave Gearing Devices Revenue Market Share by Type (2020-2032)

Figure 63:Latin America Strain Wave Gearing Devices Sales Market Share by Application (2020-2032)

Figure 64:Latin America Strain Wave Gearing Devices Revenue Market Share by Application (2020-2032)

Figure 65:Mexico Strain Wave Gearing Devices Revenue (2020-2032) & (US\$ Million)

Figure 66:Brazil Strain Wave Gearing Devices Revenue (2020-2032) & (US\$ Million)

Figure 67:Middle East & Africa Strain Wave Gearing Devices Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 68:Middle East & Africa Strain Wave Gearing Devices Revenue Market Share by Players in 2024

Figure 69:Middle East & Africa Strain Wave Gearing Devices Sales Market Share by Type (2020-2032)

Figure 70:Middle East & Africa Strain Wave Gearing Devices Revenue Market Share by

Type (2020-2032)

Figure 71: Middle East & Africa Strain Wave Gearing Devices Sales Market Share by Application (2020-2032)

Figure 72: Middle East & Africa Strain Wave Gearing Devices Revenue Market Share by Application (2020-2032)

Figure 73: Saudi Arabia Strain Wave Gearing Devices Revenue (2020-2032) & (US\$ Million)

Figure 74: South Africa Strain Wave Gearing Devices Revenue (2020-2032) & (US\$ Million)

Figure 75: Global Strain Wave Gearing Devices Sales Market Share by Key Manufacturers in 2024

Figure 76: Global Strain Wave Gearing Devices Revenue Market Share by Key Manufacturers in 2024

Figure 77: Global Strain Wave Gearing Devices Industry Competition Landscape

Figure 78: Strain Wave Gearing Devices Industry Chain Analysis

Figure 79: Bottom-Up and Top-Down Research Methods

Figure 80: Key Interview Objectives

Figure 81: Data Cross Validation

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