

Global Strain Wave Gear and Rotary Actuators Market Growth 2024-2030

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Abstracts

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Strain-wave gearing is a type of precision motion control mechanism used in various applications, including robotics, aerospace, and industrial automation. It operates based on the principle of elastic deformation to achieve high gear reduction ratios with excellent precision and compact size. The main components of a strain-wave gear system include a circular spline, a flex spline, and a wave generator. The circular spline is a rigid ring with internal teeth, while the flex spline is a thin, flexible cup-shaped component with external teeth. The wave generator is a mechanism that applies a cyclical force to deform the flex spline, causing it to mesh with the teeth of the circular spline. As the wave generator rotates, it creates a 'wave' of deformation in the flex spline, causing it to engage and disengage with the circular spline teeth. This interaction results in an elliptical motion of the flex spline relative to the circular spline, driving the output shaft with precise speed and torque control.

Rotary Actuators are composed of Strain Wave Gear, motor, encoder, brake, etc. In addition to directly providing customers with strain wave gears, some strain wave gear suppliers also provide customers with integrated strain wave gear modules, that is, actuators. This article counts strain wave gears and rotary actuators.

The global Strain Wave Gear and Rotary Actuators market size is projected to grow from US\$ million in 2024 to US\$ million in 2030; it is expected to grow at a CAGR of %from 2024 to 2030.

LP Information, Inc. (LPI) ' newest research report, the "Strain Wave Gear and Rotary Actuators Industry Forecast" looks at past sales and reviews total world Strain Wave

Gear and Rotary Actuators sales in 2023, providing a comprehensive analysis by region and market sector of projected Strain Wave Gear and Rotary Actuators sales for 2024 through 2030. With Strain Wave Gear and Rotary Actuators sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Strain Wave Gear and Rotary Actuators industry.

This Insight Report provides a comprehensive analysis of the global Strain Wave Gear and Rotary Actuators landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Strain Wave Gear and Rotary Actuators portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Strain Wave Gear and Rotary Actuators market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Strain Wave Gear and Rotary Actuators and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Strain Wave Gear and Rotary Actuators.

United States market for Strain Wave Gear and Rotary Actuators is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

China market for Strain Wave Gear and Rotary Actuators is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Europe market for Strain Wave Gear and Rotary Actuators is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Global key Strain Wave Gear and Rotary Actuators players cover HDSI, Leaderdrive, Zhejiang Laifual, Nidec-Shimpo, ILJIN Motion & Control GmbH, etc. In terms of revenue, the global two largest companies occupied for a share nearly

% in 2023.

This report presents a comprehensive overview, market shares, and growth opportunities of Strain Wave Gear and Rotary Actuators market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Cup Style Strain Wave Gear

Hat Style Strain Wave Gear

Pancake Style Strain Wave Gear

Rotary Actuators

Segmentation by Application:

Industry Robot

Semiconductor Equipment

Flat Panel Equipment

Machine Tools

Optical Machine

Printing, Bookbinding and Paper Machine

Metal Working Machine

Medical Equipment

Space Equipment

Automotive

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

HDSI

Leaderdrive

Zhejiang Laifual

Nidec-Shimpo

ILJIN Motion & Control GmbH

Shenzhen Han's Motion Technology

OVALO GmbH

Beijing CTKM Harmonic Drive

TC Drive

Hiwin Corporation

KHGEARS

Ningbo Zhongda Leader Intelligent Transmission

Sichuan Fude Robot

Wanshsin Seikou

Main Drive

Reach Machinery

KOFON

SBB Tech

Too Eph Transmission Technology

BHDI

Guangzhou Haozhi Industrial

Schaeffler

GAM Enterprise

SPG

BENRUN Robot

Cone Drive

Jiangsu Guomao Reducer

Guohua Hengyuan Tech Dev Co., Ltd.

LI-MING Machinery Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Strain Wave Gear and Rotary Actuators market?

What factors are driving Strain Wave Gear and Rotary Actuators market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Strain Wave Gear and Rotary Actuators market opportunities vary by end market size?

How does Strain Wave Gear and Rotary Actuators break out by Type, by Application?

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