

Global Strain Wave Gears for Industrial Robots Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Strain Wave Gears for Industrial Robots market size is expected to reach \$ 681.9 million by 2029, rising at a market growth of 6.7% CAGR during the forecast period (2023-2029).

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, pick-and-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 end-users 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.

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.

This report studies the global Strain Wave Gears for Industrial Robots production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Strain Wave Gears for Industrial Robots, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Strain Wave Gears for Industrial Robots that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Strain Wave Gears for Industrial Robots total production and demand, 2018-2029, (K Units)

Global Strain Wave Gears for Industrial Robots total production value, 2018-2029, (USD Million)

Global Strain Wave Gears for Industrial Robots production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Strain Wave Gears for Industrial Robots consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: Strain Wave Gears for Industrial Robots domestic production, consumption, key domestic manufacturers and share

Global Strain Wave Gears for Industrial Robots production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global Strain Wave Gears for Industrial Robots production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Strain Wave Gears for Industrial Robots production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units).

This reports profiles key players in the global Strain Wave Gears for Industrial Robots market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include HDSI, Leaderdrive, Zhejiang Laifual, Shenzhen Han's Motion Technology, Nidec-Shimpo, Beijing CTKM Harmonic Drive, KOFON, Too Eph Transmission Technology and SBB Tech, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Strain Wave Gears for Industrial Robots market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Strain Wave Gears for Industrial Robots Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Strain Wave Gears for Industrial Robots Market, Segmentation by Type

Cup Style

Hat Style

Pancake Style

Global Strain Wave Gears for Industrial Robots Market, Segmentation by Application

Multi-joint Robots

Coordinate Robots

Parallel Robots

SCARA Robots

Collaborative Robots

Companies Profiled:

HDSI

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.

Key Questions Answered

1. How big is the global Strain Wave Gears for Industrial Robots market?
2. What is the demand of the global Strain Wave Gears for Industrial Robots market?
3. What is the year over year growth of the global Strain Wave Gears for Industrial Robots market?
4. What is the production and production value of the global Strain Wave Gears for Industrial Robots market?

5. Who are the key producers in the global Strain Wave Gears for Industrial Robots market?

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