

Global Harmonic Drive Precision Gear Reducer for Industrial Robots Market Growth 2025-2031

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Abstracts

The global Harmonic Drive Precision Gear Reducer for Industrial Robots market size is predicted to grow from US\$ 594 million in 2025 to US\$ 892 million in 2031; it is expected to grow at a CAGR of 7.0% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Harmonic Drive is a compact, high performance, precision reduction gear. It is one of the key components used in robotic products such as collaborative work robots. The gear consists of only 3 basic parts (Wave Generator, Flex spline, and Circular Spline). It provides excellent features not found in other speed reducers.

Japan HDSI currently holds the core technology of harmonic drive reducers and forms a technical barrier to high-performance reducers. It is difficult for companies in other regions to reach their technical level. Due to the strong market demand in China, more and more Chinese companies have entered the industry, and many companies have expansion plans. For example, Shenzhen Han's Motion Technology is a good new entrant. In 2022, the sales volume of harmonic reducers has reached 98,080 units. In the United States, Canada, and South Korea also have R&D and production companies.

LP Information, Inc. (LPI) ' newest research report, the "Harmonic Drive Precision Gear Reducer for Industrial Robots Industry Forecast" looks at past sales and reviews total world Harmonic Drive Precision Gear Reducer for Industrial Robots sales in 2024, providing a comprehensive analysis by region and market sector of projected Harmonic

Drive Precision Gear Reducer for Industrial Robots sales for 2025 through 2031. With Harmonic Drive Precision Gear Reducer for Industrial Robots sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Harmonic Drive Precision Gear Reducer for Industrial Robots industry.

This Insight Report provides a comprehensive analysis of the global Harmonic Drive Precision Gear Reducer for Industrial Robots 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 Harmonic Drive Precision Gear Reducer for Industrial Robots portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Harmonic Drive Precision Gear Reducer for Industrial Robots market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Harmonic Drive Precision Gear Reducer for Industrial Robots 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 Harmonic Drive Precision Gear Reducer for Industrial Robots.

This report presents a comprehensive overview, market shares, and growth opportunities of Harmonic Drive Precision Gear Reducer for Industrial Robots market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Cup Style

Hat Style

Pancake Style

Segmentation by Application:

Multi-joint Industrial Robots

SCARA Industrial Robots

Others

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

Shenzhen Han's Motion Technology

BENRUN Robot

KOFON

Beijing CTKM Harmonic Drive

Too Eph Transmission Technology

BHDI

Cone Drive

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 Harmonic Drive Precision Gear Reducer for Industrial Robots market?

What factors are driving Harmonic Drive Precision Gear Reducer for Industrial Robots market growth, globally and by region?

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

How do Harmonic Drive Precision Gear Reducer for Industrial Robots market opportunities vary by end market size?

How does Harmonic Drive Precision Gear Reducer for Industrial Robots break out by Type, by Application?

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