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Global Cable-Driven Dexterous Hands Market Growth 2026-2032

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Abstracts

The global Cable-Driven Dexterous Hands market size is predicted to grow from US$ 124 million in 2025 to US$ 281 million in 2032; it is expected to grow at a CAGR of 14.3% from 2026 to 2032.

A cable-driven dexterous hand is a biomimetic robotic end effector that uses flexible ropes (tendon ropes, steel wire ropes, fiber ropes, etc.) as the power transmission medium. It achieves multi-degree-of-freedom motion control through the collaboration of a remote actuator and a proximal drive mechanism. This product simulates the "tendon-muscle" movement mechanism of the human hand, transmitting power generated by a motor, reduction mechanism, or drive unit via ropes to the finger joints, enabling the fingers to perform flexion, extension, grasping, rotation, and fine manipulation.

Compared to traditional rigid linkage manipulators, cable-driven dexterous hands feature lightweight structure, high finger flexibility, rich degrees of freedom, small end effector size, and high mobility. They more closely resemble the movement of a human hand and are particularly suitable for humanoid robots, service robots, medical rehabilitation robots, remotely operated robots, and precision grasping scenarios.

In 2025, global sales of cable-driven dexterous hands reached 24,000 units, with a production capacity of approximately 30,000 units. The average selling price was $5,285 per unit, and the average gross profit margin was 35%-45%.

The upstream of the industry chain mainly includes the supply of core components and raw materials, involving micro motors, frameless torque motors, micro reducers, encoders, drive chips, force/tactile sensors, rope materials (high-strength fiber ropes, steel wire ropes, etc.), lightweight metal materials, and engineering plastics. Among

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these, motors, sensors, and precision transmission components have a significant impact on the performance of dexterous hands. The midstream is the design and manufacturing of rope-driven dexterous hands. Companies integrate various components into multi-degree-of-freedom robot hand execution modules through mechanical structure design, tendon rope arrangement, drive system integration, control algorithm development, and tactile feedback system integration. The downstream is mainly used in humanoid robots, collaborative robots, service robots, medical rehabilitation robots, industrial flexible manufacturing, and remote operating systems. Humanoid robots are an important application direction driving the development of rope-driven dexterous hands in recent years. As robots develop towards higher degrees of freedom, higher compliance, and operation in complex environments, the rope-driven dexterous hand industry chain is gradually evolving towards lightweighting, high integration, and intelligent sensing.

The development of roped dexterous hand technology primarily revolves around high degrees of freedom, lightweight design, compliant control, and intelligent perception. Early products were mainly geared towards research applications, focusing on multi-degree-of-freedom mechanical structures and remote control. With the development of humanoid robots, products have gradually evolved towards miniaturization, modularization, and mass production. Currently, the mainstream solution uses motors to drive ropes, controlling finger joint movement through roping tension, and combining encoders, torque sensors, tactile sensors, and vision systems to achieve more precise grasping and manipulation capabilities. In the future, roped dexterous hands will further integrate artificial intelligence algorithms, improving the robot's adaptability to complex objects and unstructured environments through reinforcement learning, imitation learning, and large-scale operational data training. In recent years, multi-degree-of-freedom roped hands have become an important hardware platform for robot learning and humanoid robot research.

The global robotics industry is driven by policies promoting intelligent manufacturing, artificial intelligence, and advanced manufacturing, leading to the rapid development of core robot components and intelligent actuators. China continues to promote innovation in the robotics industry and the development of the humanoid robot industry, providing development opportunities for core components such as dexterous hands, robot joints, and sensors; the United States and Europe, on the other hand, focus on promoting the integration and application of artificial intelligence and robotics technologies. In recent years, humanoid robot companies have continuously increased their R&D investment in dexterous hands, and some companies have begun to explore commercial production paths. For example, companies like 1X are using tendon-driven hand structures in

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humanoid robots to improve their operational capabilities in human environments. However, the industry is still in the technology verification stage, and reliability, cost control, large-scale production, and the maturity of application scenarios remain key factors for its development.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Cable-Driven Dexterous Hands Industry Forecast” looks at past sales and reviews total world Cable-Driven Dexterous Hands sales in 2025, providing a comprehensive analysis by region and market sector of projected Cable-Driven Dexterous Hands sales for 2026 through 2032. With Cable-Driven Dexterous Hands sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Cable-Driven Dexterous Hands industry.

This Insight Report provides a comprehensive analysis of the global Cable-Driven Dexterous Hands 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 Cable-Driven Dexterous Hands portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Cable-Driven Dexterous Hands market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Cable-Driven Dexterous Hands 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 Cable-Driven Dexterous Hands.

This report presents a comprehensive overview, market shares, and growth opportunities of Cable-Driven Dexterous Hands market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Single-Cable Driven Driven Dexterity Hand

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Dual-Cable Driven Dexterity Hand

Segmentation by Degrees of Freedom:

5–10 DoF

10–20 DoF

?20 DoF

Segmentation by Condom Material:

Steel Wire Rope

Polymer Fiber

Segmentation by Application:

Humanoid Robot

Collaborative Robot

Medical Rehabilitation Robot

Others

This report also splits the market by region:

Americas

United States

Canada

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- Mexico
- Brazil

APAC

- China
- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel

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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.

Shadow Robot

Tesla

Qbrobotics

1X Technologies

LinkerBot

Unitree

Agibot

Dexterous Robotics

Xynova

Zhongke Lingxi

Boyazhineng

Stellar Robot

Rysen Robotics

Key Questions Addressed in this Report

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What is the 10-year outlook for the global Cable-Driven Dexterous Hands market?

What factors are driving Cable-Driven Dexterous Hands market growth, globally and by region?

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

How do Cable-Driven Dexterous Hands market opportunities vary by end market size?

How does Cable-Driven Dexterous Hands break out by Type, by Application?

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