

Global Bionic Dexterous Hand Market Growth 2025-2031

<https://marketpublishers.com/r/G945ABF58C87EN.html>

Date: August 2025

Pages: 158

Price: US\$ 3,660.00 (Single User License)

ID: G945ABF58C87EN

Abstracts

The global Bionic Dexterous Hand market size is predicted to grow from US\$ 1716 million in 2025 to US\$ 3264 million in 2031; it is expected to grow at a CAGR of 11.3% 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.

The index finger, middle finger, ring finger and pinky finger of the human hand each have 3 degrees of freedom for bending/extension, and each has 1 degree of freedom for abduction/closing at the base of the fingers, for a total of 16 degrees of freedom. The thumb has 5 degrees of freedom, which can be specifically divided into bending/extension degrees of freedom, abduction/closing degrees of freedom and rotation degrees of freedom, for a total of 21 degrees of freedom. This multi-degree-of-freedom feature enables the human hand to flexibly complete various grasping tasks and delicate and complex operations. Under normal circumstances, a dexterous hand only needs 3 fingers with 3 degrees of freedom to complete most tasks. Therefore, we define a bionic dexterous hand as an end effector with an index ? 3 and degrees of freedom ? 9.

United States market for Bionic Dexterous Hand is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Bionic Dexterous Hand is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Bionic Dexterous Hand is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Bionic Dexterous Hand players cover Shadow Robot, Tesla Optimus, Tokyo Robotics, Robopreneur, SCHUNK, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the "Bionic Dexterous Hand Industry Forecast" looks at past sales and reviews total world Bionic Dexterous Hand sales in 2024, providing a comprehensive analysis by region and market sector of projected Bionic Dexterous Hand sales for 2025 through 2031. With Bionic Dexterous Hand sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Bionic Dexterous Hand industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Bionic Dexterous Hand 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 Bionic Dexterous Hand.

This report presents a comprehensive overview, market shares, and growth opportunities of Bionic Dexterous Hand market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Hydraulic Drive

Cylinder Drive

Pneumatic Drive

Shape Memory Alloy Drive

Segmentation by Application:

Industry

Medical

Services

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.

Shadow Robot

Tesla Optimus

Tokyo Robotics

Robopreneur

SCHUNK

Wonik Robotics

Clone Robotics

Righthand Robotics

Qbrobotics

RobotEra

DexRobot

Agile Robots

CASBOT

OYMotion

Jodell Robotics

Dorabot

Tencent Robotics X

PaXini Tech

Shanghai AgiBot Innovation Technology

Beijing Inspire Robots Technology

BrainCo

Key Questions Addressed in this Report

What is the 10-year outlook for the global Bionic Dexterous Hand market?

What factors are driving Bionic Dexterous Hand market growth, globally and by region?

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

How do Bionic Dexterous Hand market opportunities vary by end market size?

How does Bionic Dexterous Hand break out by Type, by Application?

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