

# **Global Soft Robotics Market Size study & Forecast, by Application (Human-Machine Interface and Interaction, Locomotion and Exploration, Manipulation, Medical and Surgical applications, Rehabilitation and Wearable Robots) and Regional Analysis, 2023-2030**

<https://marketpublishers.com/r/GE54FB79F06EEN.html>

Date: September 2023

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: GE54FB79F06EEN

## **Abstracts**

Global Soft Robotics Market is valued at approximately USD XX billion in 2022 and is anticipated to grow with a healthy growth rate of more than 35.1% over the forecast period 2023-2030. Soft robotics is a subset of construction robots that has been especially developed to provide reprogrammable, multifunctional, and adaptable systems that intelligently relate to sensing activity. Additionally, suppliers of soft robotics create materials, components, and enormous active structures that can more easily link to production processes and adapt to their immediate surroundings than robots constructed of hard components. The market growth is driven by significant factors such as rapid industrialization and automation, increasing number of exoskeleton innovations in healthcare industry, and rise in the development of resilient supply chains.

In May 2021, a group of scientists from Queen's University in Canada developed an exoskeleton that lowers the metabolic expenditure of walking. The goal of the research is to develop an exoskeleton that can overcome some of the brakings that happen during walking, hence lowering the metabolic cost of walking generally. According to a report on Soft Robot-Assisted Minimally Invasive Surgery (RAMIS) and Interventions by IEEE published in May 2022, the development of laparoscopic surgery—which is carried out through small incisions—led to a swift shift away from conventional open surgery in the medical field. The natural next step was moving from portable equipment to RAMIS. Robots and an easy user interface made it simple for surgeons to carry out difficult surgical operations, largely simulating the open surgery setting's accessibility. Moreover, innovative robots for small and medium-sized companies and increased R&D

from various countries create lucrative growth during the forecast years. However, lack of awareness and a single centralized regulatory body and lack of homogeneous programming platforms stifle market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Soft Robotics Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America is leading the global market share owing to increase in the number of gynecology, urology, as well as orthopedic-related disorders, coupled with improvements in medical facilities. However, APAC is expected to be the fastest growing region owing to massive adoption of the technology with increasing domestic production in the market.

Major market players included in this report are:

Bioservo Technologies AB

Soft Robotics Inc

RightHand Robotics Inc

Ekso Bionics Holdings Inc

Rewalk Robotics Ltd

Yaskawa Electric Corporation

Festo AG

Roam Robotics

ABB Ltd.

Pneubotics Inc

Recent Developments in the Market:

In April 2021, Righthand Robotics Inc. announced the release of Rightpick 3, which has even greater item handling capabilities and boasts dense packing and damage-free item handling. The news is also consistent with ProMatDX's virtual

material handling automation display.

In June 2021, Bioserve developed the advanced exoskeleton glove, recognised by NASA as the Commercial Invention of the Year in 2020, was recently updated and improved. In heavy industries with a high rate of repetitive strain injuries, the Ironhand 2.0 glove can prevent worker deaths while boosting company earnings.

#### Global Soft Robotics Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key

players. The detailed segments and sub-segment of the market are explained below:

By Application:

Human-machine Interface and Interaction

Locomotion and Exploration

Manipulation

Medical and Surgical Applications

Rehabilitation and Wearable Robots

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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