

Smart Exoskeleton - Global Market Outlook (2020-2028)

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Abstracts

According to Statistics MRC, the Global Smart Exoskeleton Market is accounted for \$347.64 million in 2020 and is expected to reach \$4,928.74 million by 2028 growing at a CAGR of 39.3% during the forecast period. High demand for use in clinical purposes and industrial body parts and increasing demand for use of smart exoskeletons in rehabilitation of people suffering from physical disabilities and neurological disorders are driving the market growth. However, high equipment cost and stringent government regulations for exoskeletons are hampering the growth of the market.

A smart exoskeleton is a powered system comprising sensors and actuators that use feedback from the wearer to provide enhanced assistance to specific body parts or the entire body while lowering energy expenditure. This exoskeleton makes use of smart algorithms, which automatically adjust to human body motions and further help in achieving optimal performance.

Based on the end user, the military segment is going to have lucrative growth during the forecast period as military organizations adopting these devices allow them to transfer load efficiently and these devices facilitate better performance while reducing soldier exertion. Smart exoskeletons that can be easily attached to the lower body are finding their application in military body parts. By geography, North America is going to have high growth during the forecast period owing to the increasing investments to develop smart, innovative, and energy-efficient exoskeleton, well-developed health care infrastructure and early availability of advanced technology products.

Some of the key players profiled in the Smart Exoskeleton Market include US Bionics, Inc., Technaid. S.L., Sarcos Corp., Rex Bionics Ltd., Honda Motor Co. Ltd., Ekso Bionics, CYBERDYNE, INC., BIONIK, ATOUN Inc. and ReWalk Robotics.

Components Covered:

Software

Hardware

Products Covered:

Ultra-Soft Exoskeleton

Soft Smart Exoskeleton

Rigid Smart Exoskeleton

Technologies Covered:

Shape Memory Alloy Actuator

Pneumatic Actuator

Electric Servo

Hydraulic

Fully Mechanical

Electric Actuator

Extremities Covered:

Upper Extremity

Lower Extremity

Full Body Extremity

Applications Covered:

Pick & Carry

Rehabilitation

End Users Covered:

Residential

Military

Industrial

Healthcare

Commercial

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Covers Market data for the years 2019, 2020, 2021, 2025 and 2028

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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