Worldwide Exoskeletons Market [by Type (Powered, Unpowered); Body (Lower, Upper, Full Body); Verticals (Consumer, Commercial, Medical, Military); Regions (NA, Europe, APAC, CALA, MEA)]: Market Size, Forecasts, Insights and Opportunities (2016-2021)

Description: The 2016 Market Analysis and Forecasting Report on The market report on Exoskeletons provides insights into key market requirements gathered from consumers, enterprises, heavy industries, factories, medical institutions, hospitals, and agencies.

The report also covers their preferences, priorities and perception of Exoskeletons and their applications. This market report provides an in-depth analysis on the market size and forecasts of Exoskeletons across four verticals - Consumer, Commercial, Medical and Military. The market forecasts are also provided for powered and unpowered exoskeletons and is also further segmented by body type - lower body, upper body and full body.

The analysis in the report will help exoskeleton market participants and manufacturers to develop strategies, marketing goals and business decisions based on the actionable market intelligence from this report.

The market for exoskeletons is segmented into four categories - Power, Body, Verticals and Regions.

By Power Type - the market size and forecasts for exoskeletons is provided by two power types: Powered and Unpowered.

By Body Type - the market size and forecasts for exoskeletons is provided by three body types: Lower Body, Upper Body and Full Body Exoskeleton.

By Verticals - the market size and forecasts for exoskeletons is provided for four verticals: Consumer, Commercial, Medical, and Military.

By Regions - the market size and forecasts for exoskeletons is provided for five regions: North America, Europe, Middle-East & Africa, Central/Latin America and Asia-Pacific.

Market Definition

Exoskeletons are robotic extensions to humans. These are either lower body; upper body or full body external skeletons are worn on the body or parts of the body. These Exoskeletons are a subset of the larger robotics market. For the purpose of the study, the commercially available versions of Exoskeletons are included for the analysis of market sizes, forecasts and estimates. The modified/customization after markets is not included for the purpose of the calculations of market sizes and estimates. The exoskeleton market does not cover the supernumerary robotics market.

The market is categorized into two primary types - Powered exoskeletons and un-powered exoskeletons. Unpowered exoskeletons are ones that rely on counterweights and are passive. Powered exoskeletons are exoskeletons that are built to amplify and enhance strength of the user who wears it. The Exoskeletons market is segmented further by verticals - consumer (personal), commercial (industrial), medical, and military. Each of these are further classified by sub-segments and regions.

Research Methodology

One of the most challenging characteristics of sizing the Exoskeletons market was to objectively incorporate the application-centered adoption of exoskeletons across industries across several countries. The data engineering itself comes with the backing of multi-tiered scenario based analysis. Three levels of adoption were considered and the most balanced and neutral perspective has been employed as the base for the data model.
This enables the research to be a straight-up non-biased evaluation. The standard top-down and bottom-up methodologies were followed to build more robustness to the market estimates. With STP analysis being the base for the top down approach, the addressable and available market estimates were identified from top-level data points.

The bottom up approach was used to qualitatively assess large volumes of customer groups (consumers, buyers, stores, commercial enterprises, businesses, factories, heavy industries, medical institutions, hospitals, and agencies) that represent the target market segment, across different geographies.

These customer groups act like the sample of the overall market and were employed to identify buying behavior and initial customers. A custom data layer was designed and embedded along with the bottom-up approach towards verifying and authenticating buyer decisions and preferences from a number perspective as well. These quantitative validations form the backbone of customer intelligence, by supporting our derived intelligence on the buyer market and customer preferences.

Data gathering for both the approaches was achieved through a rigorous period of information gathering from both secondary and primary sources over the last year. Information collected through several interviews with key industry participants, channel players, regulators, buyers, consumers, businesses, factories, industries, institutions, agencies, system integrators (SIs), resellers, channel players, and consultants were analyzed and engineered to understand buying, spending, demand and supply patterns.

These data sets were further interpreted to see how it is applicable across the value chain through market-data associations. Post this, the market engineered data was applied with multiple check points to validate consistencies, manage error samples and reduce variances. The report on the exoskeletons market is built on a strong and dependable data foundation, passing multiple levels of data validations and checkpoints.

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