

Bionic Smart Knee Market By Material (Titanium, Graphite), By End User (Hospitals, Orthopedic Clinics, Others): Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

Bionic Smart Knee Market

The bionic smart knee market was valued at \$1.3 billion in 2023 and is projected t%li%reach \$2.8 billion by 2033, growing at a CAGR of 7.8% from 2024 t%li%2033.

A bionic smart knee is a unique prosthetic device utilized for knee replacement. The device is equipped with sensors, microprocessors, and Bluetooth technology, which facilitate the replacement procedure. This smart knee imitates the natural functions of a human knee, along with enhancing comfort and mobility. The primary features of bionic smart knee include its dynamic adjustment capabilities and remarkable gait analysis. Moreover, the device's connectivity features enable its integration with external devices or mobile apps, allowing users t%li%monitor their performance and customize the settings or performance.

Advancements in technology and material sciences are driving the growth of the bionic smart knee market as these upgraded devices offer refined functionality and experience t%li%the users. In addition, rise in the prevalence of mobility issues and knee injuries, along with surge in awareness regarding the availability of advanced therapeutics is boosting the adoption of bionic smart knee. An emerging trend in the bionic smart knee market is the neuroprosthetic regulation of the device. Control of the smart knee through neural abilities is anticipated t%li%amplify the imitation of natural human gait by the device. T%li%facilitate neural control, the agonist and antagonist muscle pairs critical for knee movement need t%li%be surgically connected t%li%mimic the natural



dynamics.

However, the availability of prosthetic devices and the facility t%li%underg%li%a successful replacement are majorly restricted t%li%developed regions, which hampers the market growth. In addition, the high cost of smart knee administration, maintenance, and insurance coverage prevents budget-sensitive patients from undergoing replacement, which limits the widespread expansion of the market. According t%li%an article by the U.S. News & World Report—an American news magazine—on an average, robotic smart knee replacements cost around \$2,400 higher than the conventional replacement surgeries. On the contrary, the market is poised for lucrative opportunities due t%li%the advent of remote health. Bionic smart knee enables remote checkups and post-operative monitoring, eliminating the hassle of multiple hospital visits after surgery.

Segment Review

The bionic smart knee market is segmented int%li%material, end user, and region. On the basis of material, the market is bifurcated int%li%titanium and graphite. As per end user, it is divided int%li%hospitals, orthopedic clinics, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of material, the titanium segment dominates the bionic smart knee market.

As per end user, hospitals are the leading segment in the market.

Region wise, North America was the highest revenue generator in 2023.

Competition Analysis

The key players operating in the global bionic smart knee market include Stryker Corporation., Zimmer Biomet Holdings, Inc., Smith & Nephew plc, Johnson & Johnson, B. Braun Melsungen AG, Medtronic, ?ssur, Wright Medical Group N.V., Exactech, Inc., and ConforMIS, Inc. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships, t%li%strengthen their foothold in the competitive market.

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Additional company profiles with specific t%li%client's interest

Expanded list for Company Profiles

Key Market Segments

By Material

Titanium



	Graphite		
By End User			
	Hospitals		
	Orthopedic Clinics		
	Others		
By Region			
	North America		
	U.S.		
	Canada		
	Mexico		
	Europe		
	France		
	Germany		
	Italy		
	Spain		
	UK		
	Rest of Europe		
	Asia-Pacific		



China
Japan
India
South Korea
Australia
Rest of Asia-Pacific
LAMEA
Brazil
South Africa
Saudi Arabia
Rest of LAMEA
Key Market Players
Stryker Corporation.
Zimmer Biomet Holdings, Inc.
Smith & Nephew plc
Johnson & Johnson
B. Braun Melsungen AG
Medtronic
?ssur
Wright Medical Group N.V.



Exacteur. Inc.	Exactech, I	nc.
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ConforMIS, Inc.



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