

Biodegradable Micro Screws Market By Application (Orthopedic Surgeries, Dental Implants, Others) , By End User (Hospitals, Dental Clinics, ASCs, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

Biodegradable Micro Screws Market

The biodegradable micro screws market was valued at \$0.4 billion in 2023 and is projected to reach \$0.7 billion by 2033, growing at a CAGR of 5.7% from 2024 to 2033.

Biodegradable micro screw is a specially designed component for the medical settings, that provides temporary support or fixation to the body parts. A unique attribute of this screw includes its ability to naturally degrade inside the body with time. Biocompatible materials such as polyglycolic acid and polylactic acid are primarily used to create these micro screws. One of the major surgical fields that makes use of these screws is orthopedic surgeries involving bone fractures and injuries. In addition, several other surgical fields such as craniomaxillofacial surgeries and pediatric orthopedics integrate micro screws in their procedures.

Increase in the adoption of minimally invasive surgical procedures is a key driver of the biodegradable micro screws market as these screws eliminate the requirement of post-surgery invasion for screw removal. In addition, advancements in technology such as the usage of ingenious manufacturing techniques, including additive manufacturing and advanced molding procedures, are propelling the market development as these technologies enhance the efficacy & reliability of the screws. In recent times, the trend of coating biodegradable micro screws with ceramics is acquiring traction in the

market. Coating materials such as calcium phosphates and magnesium alloys accelerate the healing process by promoting biomineralization and osteointegration of bones.

However, the cost of biodegradable micro screws is significantly higher as compared to traditional metallic screws, deterring several small-scale medical facilities from investing in them. Furthermore, biodegradable screws exhibit less efficiency in long-term healing cases, which limits their application and restricts the market development. Contrarily, innovations in the designing of biodegradable micro screws are expected to present lucrative opportunities for the market expansion. For instance, manufacturers are exploring screws to act as delivery agents and integrate medications or antibiotics at the site of their implantation. This is expected to transform the surgical landscape by promoting tissue regeneration along with providing mechanical support.

Segment Review

The biodegradable micro screws market is segmented into application, end user, and region. On the basis of application, the market is divided into orthopedic surgeries, dental implants, and others. As per end user, it is classified into hospitals, dental clinics, ASCs, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of application, the orthopedic surgeries segment dominates the biodegradable micro screws market.

As per end user, the hospitals segment is anticipated to account for a high market share during the forecast period.

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

Competition Analysis

The key players operating in the global biodegradable micro screws market include Johnson & Johnson, Stryker Corporation., Smith & Nephew plc, Medtronic plc, Zimmer Biomet Holdings, Inc., Bioretec Ltd, CONMED Corporation., OsteoMed, KLS Martin Group, and Arthrex, Inc. These major players have adopted various key development

strategies such as business expansion, new product launches, and partnerships, to strengthen their foothold in the competitive market.

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Key Market Segments

By Application

Orthopedic Surgeries

Dental Implants

Others

By End User

Hospitals

Dental Clinics

ASCs

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

Johnson & Johnson

Stryker Corporation.

Smith & Nephew plc

Medtronic plc

Zimmer Biomet Holdings, Inc.

Bioretec Ltd

CONMED Corporation.

OsteoMed

KLS Martin Group

Arthrex, Inc.

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