

Internal Trauma Fixation Device Market Report by Product (Closure Device, Bone Cement), Material (Stainless Steel, Nitinol, Titanium, Tritium, Polyether Ether Ketone (PEEK)), End User (Hospitals, Orthopedic Surgical Centers, Trauma Centers, Ambulatory Centers), and Region 2025-2033

Market Report | 2025-10-01 | 144 pages | IMARC Group

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Report description:

The global internal trauma fixation device market size reached USD 10.7 Billion in 2024. Looking forward, IMARC Group expects the market to reach USD 15.8 Billion by 2033, exhibiting a growth rate (CAGR) of 4.23% during 2025-2033. The market is notably propelled by accelerating demand for technological innovations in device material and designing, nominally invasive surgeries, and an escalating geriatric population. In addition, such factors are improving patient outcomes, enhancing recovery periods, and boosting the adoption of cutting-edge trauma fixation solutions globally, thereby propelling the market growth.

Internal Trauma Fixation Device Market Trends:

Increasing Demand for Minimally Invasive Surgeries

The escalating preference for minimally invasive surgeries is one of the key trends significantly impacting the global market growth. Such procedures provide lowered post-operative issues and quicker recovery times. According to a research article published in the journal of Brain and Spine, in March 2024, a study result indicated that in comparison to traditional open surgery, minimally invasive surgery (MIS) for spinal fractures exhibited better life quality, lowered back pain, and less disability. Furthermore, only 30% of MIS patients needed pain medication, compared to 54% of individuals who underwent traditional open surgery. Moreover, technological innovations, such as more effective and compact fixation devices, are substantially steering this trend. In addition, numerous healthcare providers and surgeons are currently leveraging these devices for treating traumas as well as fractures, especially in old-aged patients, which is further contributing to the internal trauma fixation device demand and overall enhancement of patient outcomes.

Increase in Geriatric Population

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The global elevation in the aging population is substantially aiding the market expansion for internal trauma fixation device. According to the United Nations, the number of individuals aged 80 years or older are observed to be growing at an accelerated rate. Furthermore, it is projected that in the year 2050, number of individuals aged 65 or older will reach around 1.6 billion. The demand for efficient trauma fixation solutions is rapidly fueling among this segment of population as the old-aged individuals are more prone to orthopedic disorders and fractures. Moreover, the increasing prevalence of bone-associated diseases, like osteoporosis, and amplified life expectancy, are further fueling the adoption of these fixation devices. In addition, this trend is anticipated to bolster as healthcare organizations are actively emphasizing on enhancing the quality of life for elderly population, which, ultimately, boosts the global internal trauma fixation device market growth.

Technological Innovations in Fixation Devices

Technological advancements in the materials and design of internal trauma fixation devices are significantly steering the global market dynamics. The development of 3D-printed and bioabsorbable implants, coupled with improved navigation and imaging systems, is enhancing device incorporation as well as surgical outcomes. For instance, in April 2023, University of Central Florida developed bioabsorbable rods, screws, pins, and various other implants using magnesium composites for better bone healing. These bioabsorbable implants are also incorporated with nanoparticles to accelerate bone regeneration. In addition, such advancements permit for more patient-specific, accurate treatment processes, lowering the demand for follow-up surgeries and improving recovery periods. Moreover, constant research and development in this market is expected to further result in innovation of more efficient trauma care solution, thereby contributing to the positive internal trauma fixation device market outlook.

Internal Trauma Fixation Device Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the global, regional, and country levels for 2025-2033. Our report has categorized the market based on product, material, and end user.

Breakup by Product:

- Closure Device
 - o□ Plates and Screws
 - o□ Wires
 - o□ Clips and Pins
 - o□ Rods and Nails
 - o□ Cables
- Bone Cement

Closure device (plates and screws) accounts for the majority of the market share

The report has provided a detailed breakup and analysis of the market based on the product. This includes closure device (plates and screws, wires, clips and pins, rods and nails, and cables) and bone cement. According to the report, closure device (plates and screws) represented the largest segment.

According to the internal trauma fixation device market forecast, plates and screws are anticipated to sustain their dominance as closure device mainly because of their exceptional capability to offer durable and robust fixation for various types of fractures, which makes them requisite in surgical processes. Advancements in materials and designs have significantly enhanced their performance, resulting in a quicker recovery time and minimized complications. In addition, plates and screws are extensively preferred due to their versatile nature in mitigating complicated bone fractures, guaranteeing accuracy and long-term dependability for individuals undergoing trauma fixation surgeries.

Breakup by Material:

- Stainless Steel
- Nitinol
- Titanium
- Tritium
- Polyether Ether Ketone (PEEK)

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Stainless steel holds the largest share of the industry

A detailed breakup and analysis of the market based on the material have also been provided in the report. This includes stainless steel, nitinol, titanium, tritium, and polyether ether ketone (PEEK). According to the report, stainless steel accounted for the largest market share.

As per the internal trauma fixation device market report, stainless steel is a widely utilized material in this market due to its cost-efficiency, durability, and robustness. Its high resistance against corrosion establishes it as a suitable material for long-term usage in implants, lowering the chances of infection in patients. In addition, the widespread availability and affordability of stainless steel position it as a preferable material for numerous healthcare providers, especially in regions with restricted budgets. In spite of innovations in alternative materials, stainless steel continues to be depended upon for trauma fixation devices globally.

Breakup by End User:

- Hospitals
- Orthopedic Surgical Centers
- Trauma Centers
- Ambulatory Centers

Hospitals represent the leading market segment

The report has provided a detailed breakup and analysis of the market based on the end user. This includes hospitals, orthopedic surgical centers, trauma centers, and ambulatory centers. According to the report, hospitals represented the largest segment. According to the internal trauma fixation device market research report, hospitals have emerged as the leading end-user segment in the global market. They efficiently manage the majority of trauma cases demand surgical mediation, making them major consumers of such devices. In addition, the availability of cutting-edge medical facilities, extensive post-operative care, and trained surgeons in hospitals supports their market domination. Moreover, the increasing prevalence of trauma-related injuries, such as internal bleeding, organ damage, and bone fractures, fosters a steady demand for screws, plates, and other fixation devices within the hospital premises globally. According to a research article published in August 2023, by 2050, the annual cases of hip fractures around the world are anticipated to increase to 5-21 million.

Breakup by Region:

- North America
 - o□United States
 - o□Canada
- Asia-Pacific
 - o□China
 - o□Japan
 - o□India
 - o□South Korea
 - o□Australia
 - o□Indonesia
 - o□Others
- Europe
 - o□Germany
 - o□France
 - o□United Kingdom
 - o□Italy
 - o□Spain
 - o□Russia
 - o□Others

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- Latin America
 - o□ Brazil
 - o□ Mexico
 - o□ Others
- Middle East and Africa

North America leads the market, accounting for the largest internal trauma fixation device market share

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America represents the largest regional market for internal trauma fixation device.

North America is leading the global internal trauma fixation market, majorly supported by upgraded healthcare systems, increasing population of aged individuals, and elevated medical spendings. The region notably profits from robust research and development projects, coupled with beneficial regulatory policies. Moreover, the rising cases of various orthopedic conditions as well as fractures, along with easy access to advanced medical facilities, significantly fuel the demand for such devices in the region. As per recent study data, orthopedic conditions such as anterior cruciate ligament ruptures are commonly observed in trauma victims, with 100,000 to 200,000 such incidents recorded annually in the U.S. In addition, the heightening awareness regarding early diagnosis as well as treatment of internal trauma further strengthens North America's position as the dominant region in the global market for internal trauma fixation device.

Competitive Landscape:

-□ The market research report has also provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the major market players in the internal trauma fixation device industry include Arthrex Inc., B. Braun Melsungen AG, Globus Medical Inc., Johnson & Johnson Private Limited, Medartis AG, Orthofix Medical Inc., Orthopaedic Implant Company, OsteoMed (Berkshire Hathaway Inc.), Smith & Nephew plc, Stryker Corporation, and Zimmer Biomet.

(Please note that this is only a partial list of the key players, and the complete list is provided in the report.)

-□ The competitive landscape is characterized by intense competition, with major players actively emphasizing on strategic collaborations, certifications and clearances from regulatory bodies, and product advancements to attain a competitive advantage. For instance, in October 2023, the TriLeap Lower Extremity Anatomic Plating System, developed by DePuy Synthes, a Johnson & Johnson company, was granted clearance by the US FDA and is anticipated to launch in 2024. This plating system can be utilized by surgeons for bone stabilization during fractures, bunionectomies, and osteotomies of the ankle or foot. Various companies are currently investing in research and development activities to enhance device efficiency and proliferate their product offerings. Moreover, well-established leaders in the market are also participating in acquisitions and mergers deals to fortify their foothold and tap into new markets. Whereas regional players are emphasizing on providing cost-efficient solution, addressing the needs of price-sensitive markets and extending their reach.

Key Questions Answered in This Report

1. How big is the global internal trauma fixation device market?
2. What is the expected growth rate of the global internal trauma fixation device market during 2025-2033?
3. What are the key factors driving the global internal trauma fixation device market?
4. What has been the impact of COVID-19 on the global internal trauma fixation device market?
5. What is the breakup of the global internal trauma fixation device market based on the product?
6. What is the breakup of the global internal trauma fixation device market based on the material?
7. What is the breakup of the global internal trauma fixation device market based on the end user?

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- 8.What are the key regions in the global internal trauma fixation device market?
9.Who are the key players/companies in the global internal trauma fixation device market?

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