

# **PEEK Surgical Screws Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product (Cortical Screws, Cancellous Screws, and Hybrid Screws), By Application (Spinal Fixation, Joint Reconstruction, Trauma Fracture Repair, Dental Implants, and Others), By End Use (Hospitals and Outpatient Facilities), By Region and Competition, 2020-2030F**

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## **Abstracts**

Global PEEK Surgical Screws Market was valued at USD 493.76 Million in 2024 and is expected to reach USD 723.82 Million by 2030 with a CAGR of 6.54% during the forecast period. The Global PEEK Surgical Screws Market is driven by several key factors, including the growing demand for advanced materials in orthopaedic and spinal surgeries. Polyetheretherketone (PEEK), a biocompatible and highly durable polymer, is increasingly favored due to its excellent mechanical properties, radiolucency, and resistance to wear, making it ideal for implants. The rise in spinal surgeries, trauma cases, and joint replacements, particularly among an aging global population, is fueling the market. The growing preference for minimally invasive surgical techniques is increasing the adoption of PEEK-based screws, as they offer better imaging compatibility and reduce the risk of complications. Ongoing advancements in material science and the expansion of healthcare access in emerging markets further contribute to the growth of the PEEK surgical screws market.

### **Key Market Drivers**

Increasing Prevalence of Orthopedic and Spinal Disorders

The rising global prevalence of orthopedic and spinal disorders is a critical driver for the demand for PEEK surgical screws. As the world's population continues to age, the incidence of musculoskeletal conditions such as degenerative spine diseases, osteoarthritis, and scoliosis is increasing, leading to a higher number of patients requiring surgical intervention. Spinal disorders, in particular, are becoming more common, with conditions like herniated discs, degenerative disc disease, and spinal fractures often requiring surgeries that involve the use of spinal implants like screws and rods. In these types of surgeries, PEEK surgical screws are highly favored because they offer superior mechanical stability while being biocompatible. According to "Prevalence of spine degeneration diagnosis by type, age, gender, and obesity using Medicare data", the overall prevalence of diagnosed spinal degenerative disease was 27.3%, with rates increasing with age. The prevalence of diagnosed disc disease was found to be 2.7 times higher in individuals with radiological evidence. These findings highlight the common occurrence of degenerative changes in the spine. Since asymptomatic individuals may not be diagnosed with degenerative conditions, this analysis likely underrepresents the true general prevalence of these conditions.

As these conditions rise, particularly in older populations who are more susceptible to bone degeneration and spinal disorders, the demand for PEEK-based implants is escalating. For example, spinal fusion surgeries, which aim to correct spinal instability, require screws to maintain vertebral alignment and promote healing. PEEK's properties, such as its strength and ability to resist degradation in the human body, make it an ideal material choice for these procedures. The increasing number of people requiring orthopedic treatments, combined with PEEK's ability to deliver consistent outcomes, is pushing the market forward.

### Biocompatibility and Superior Mechanical Properties

One of the standout characteristics of PEEK is its biocompatibility, the material's ability to integrate well with the human body without causing adverse reactions. PEEK's molecular structure, which allows it to withstand long-term implantation, makes it ideal for surgical screws that need to endure years of mechanical stress and strain. The material is non-toxic, non-inflammatory, and resistant to corrosion, reducing the risk of complications such as infection or rejection. Unlike metals, PEEK also does not interfere with MRI or CT scans, offering clear imaging that is crucial for post-operative monitoring. PEEK offers outstanding mechanical properties such as strength, stiffness, and wear resistance, which make it well-suited for load-bearing applications. In spinal surgeries, for example, screws must support and stabilize the spine over an extended

period. PEEK's long-term mechanical integrity ensures that the screws can maintain their strength throughout the patient's recovery. PEEK's durability, coupled with its ability to withstand biomechanical forces, enhances the effectiveness of surgical interventions and improves overall surgical outcomes. These properties have led to an increasing preference for PEEK-based implants, thereby driving market growth.

### Aging Population and Global Healthcare Challenges

An aging population globally is one of the largest contributing factors to the increasing demand for PEEK surgical screws. As life expectancy increases, the number of elderly individuals requiring medical intervention for conditions like osteoporosis, degenerative spinal diseases, and hip fractures grows. Older adults often suffer from weakened bone structures, which can complicate healing processes, making the use of strong and reliable surgical implants even more important. By 2030, 1 in 6 people worldwide will be aged 60 or older. The global population of individuals aged 60 and above will grow from 1 billion in 2020 to 1.4 billion by that time. By 2050, the number of people aged 60 and older is projected to double to 2.1 billion. Additionally, the number of people aged 80 or older is expected to triple between 2020 and 2050, reaching 426 million.

In addition, elderly patients are more prone to chronic conditions that lead to prolonged or repeated surgeries, such as osteoarthritis, making them more likely to need multiple implants over their lifetime. PEEK's biocompatibility and durability are essential for ensuring that these implants can last throughout a patient's extended lifespan. In regions such as North America and Europe, where the aging population is especially large, the demand for spinal and orthopedic surgeries is on the rise, fueling the market for PEEK surgical screws. Many elderly patients require minimally invasive procedures, where PEEK's radiolucency and lightweight properties make it ideal for reducing surgical complications.

### Growth in Trauma and Sports Injuries

The increasing occurrence of trauma and sports injuries is another driver for the growth of the PEEK surgical screws market. Sports injuries, road accidents, and trauma-related fractures require surgical intervention, often necessitating the use of screws and other orthopedic implants. PEEK surgical screws offer an advantage in these cases because they provide a combination of strength and flexibility, which is essential for bone fixation in trauma surgery. PEEK screws are less likely to cause interference in imaging devices, allowing for continuous monitoring of the injury's healing process post-surgery. The growth in high-impact sports activities, especially in young adults and athletes, has

contributed significantly to the demand for high-performance surgical screws that can withstand significant physical stress. After a record low number of sports and recreational injuries reported in 2020, injuries rose by 20% in 2021, 12% in 2022, and 2% in 2023. The Consumer Product Safety Commission (CPSC) noted that during the first seven months of the COVID-19 pandemic, with most shelter-in-place restrictions in effect, emergency department visits for consumer product-related injuries dropped by 24% (see the consumer product injury page). The most significant declines were seen in sports-related injuries. Injuries in sports such as track and field, lacrosse, hockey, soccer, baseball, softball, football, and basketball all decreased by over 60% from March to September 2020. The largest reductions in sports injuries were observed in younger to late teen age groups during 2020. The CPSC attributes these substantial decreases to the suspension of school and youth sports leagues in the spring and summer months of 2020 due to the pandemic. PEEK's ability to support bone regeneration and reduce the likelihood of post-operative complications makes it the preferred material for these types of surgeries.

### Increased Focus on Infection Prevention

The growing emphasis on infection prevention in surgical procedures has driven the demand for PEEK surgical screws, as these screws are less likely to harbor bacteria compared to traditional metal implants. Since PEEK is non-corrosive and non-reactive, it minimizes the risk of infections, which are particularly critical in spinal and orthopedic surgeries where complications can lead to serious consequences. PEEK implants can be combined with antimicrobial coatings, further reducing the likelihood of infections. Infection prevention is a growing concern worldwide, particularly in hospital settings, where the risk of healthcare-associated infections (HAIs) is high. The adoption of PEEK surgical screws, with their infection-resistant properties, is part of a broader trend in healthcare that emphasizes improving patient safety and surgical outcomes. The ongoing efforts to improve infection control in hospitals are accelerating the use of PEEK implants, making it a key driver for the market.

### Expanding Healthcare Access in Emerging Markets

The expansion of healthcare access in emerging markets is also contributing to the growth of the global PEEK surgical screws market. As countries in regions like Asia Pacific, South America, and Middle East & Africa experience rapid economic development and improvements in healthcare infrastructure, the demand for high-quality medical implants is rising. In these regions, the growing prevalence of chronic diseases, trauma cases, and sports-related injuries is driving the need for advanced

surgical solutions. With increased access to healthcare and better healthcare funding, patients in these regions are now more likely to seek advanced treatment options, including spinal surgeries, which require strong, biocompatible screws like PEEK. The adoption of PEEK surgical screws in emerging markets is being supported by government and private sector investments, making the material more accessible to a broader population. This expanding market presents significant growth potential for PEEK manufacturers, as healthcare systems in these regions begin to prioritize high-quality, long-lasting surgical implants.

## Key Market Challenges

### High Cost of PEEK Implants

One of the primary challenges facing the PEEK surgical screws market is the high cost of PEEK-based implants compared to traditional metal-based implants, such as titanium. PEEK, while offering superior biocompatibility, strength, and radiolucency, is a more expensive material to produce and process. These high costs are often passed on to healthcare providers and, ultimately, patients. For regions with limited healthcare budgets or where cost-sensitive healthcare practices prevail, such as in some developing countries, the affordability of PEEK implants can be a significant barrier. Healthcare providers may be reluctant to adopt these advanced products if they are not reimbursed adequately by insurance companies. This challenge could slow the widespread adoption of PEEK surgical screws, particularly in emerging markets where cost concerns are more prevalent.

### Limited Awareness and Training Among Healthcare Providers

Another challenge is the limited awareness and training regarding the use of PEEK implants among healthcare professionals, particularly in regions where these materials are still relatively new. While PEEK implants have been extensively studied and proven to offer superior performance in certain types of surgeries, many surgeons may be unfamiliar with the latest advancements or may not be trained in the appropriate techniques for using PEEK surgical screws. This lack of knowledge and training can hinder the adoption of PEEK implants, especially in emerging markets where the medical community may be more accustomed to using traditional metal implants. For PEEK surgical screws to be widely adopted, there needs to be a concerted effort to educate and train healthcare providers on their advantages, proper usage, and potential benefits to patient outcomes.



## Manufacturing and Material Constraints

Manufacturing PEEK surgical screws requires sophisticated equipment and highly precise production techniques. The complexity of molding and machining PEEK to meet the exacting standards required for medical implants can lead to production constraints. While PEEK is known for its durability and strength, the material's performance can vary based on the specific formulation, manufacturing process, and design. Small defects in the production of the screws could potentially affect their mechanical properties, leading to concerns about consistency and long-term reliability. The high precision required in PEEK manufacturing and the cost of ensuring quality control could limit the scalability of production, particularly for smaller manufacturers who may face difficulties meeting regulatory standards or competing with larger, more established companies.

## Key Market Trends

### Shift Toward Minimally Invasive Surgery

The global shift toward minimally invasive surgery (MIS) is another driving force for the demand for PEEK surgical screws. Minimally invasive techniques focus on performing surgeries through smaller incisions, which results in less disruption to the surrounding tissues, reduced blood loss, and quicker recovery times for patients. For many types of spinal and orthopedic surgeries, PEEK screws are ideal because they are lighter and offer high strength without adding the extra bulk and weight that traditional metal implants might bring. Since MIS requires precise, lightweight, and durable materials that do not compromise the healing process, PEEK has become a go-to option for many orthopedic surgeons. PEEK screws provide the added benefit of being radiolucent, meaning they do not obstruct imaging. This makes it easier for medical professionals to monitor the healing process using X-rays and other imaging technologies, a key advantage in MIS where the surgical site is difficult to access directly. The growing preference for MIS, which reduces post-operative complications and hospital stays, has further increased the adoption of PEEK-based implants, thus contributing to market growth.

## Technological Advancements and Innovation

The advancements in material science and the continuous innovation in manufacturing techniques have played a crucial role in the development of PEEK surgical screws. New technologies such as 3D printing and computer-assisted design (CAD) are allowing for the production of customized PEEK surgical screws that are perfectly suited for

individual patient needs. In May 2021, Solvay, a Belgium-based chemical company, partnered with Carbon22, a GLW, Inc. subsidiary, to incorporate Zeniva polyetheretherketone (PEEK) resin into its Creed Cannulated Screw System for foot and ankle surgery.

The ability to create implants tailored to the patient's unique anatomical requirements improves surgical outcomes and reduces the risk of complications. Advancements in PEEK composite materials, where PEEK is combined with other materials such as carbon fibers, have resulted in products that offer even greater strength, stiffness, and wear resistance. These innovations are helping PEEK screws meet the increasingly complex demands of modern surgery, further pushing the market's growth. The continuous research and development of new PEEK formulations have opened new avenues for its use in more challenging clinical scenarios, including applications in complex spinal surgeries and trauma care.

## Segmental Insights

### Product Insights

Based on the product, cortical screws dominated the global PEEK surgical screws market. This dominance is primarily due to their critical role in orthopedic and spinal surgeries, where they are used to anchor implants to the dense cortical bone in the body. Cortical bones are located in areas with high mechanical load-bearing needs, such as the spine, pelvis, and extremities, making them an essential part of the fixation system in a wide range of surgical procedures. PEEK cortical screws are gaining significant traction because of their excellent mechanical properties, such as strength, stiffness, and resistance to wear, which make them ideal for securing implants in these high-stress areas.

Cortical screws are characterized by their thread design and materials, which provide superior engagement with the hard, outer layer of bone. In spinal fusion surgeries, particularly for procedures involving vertebral fixation, PEEK cortical screws offer enhanced fixation stability while being radiolucent, allowing clear imaging during post-operative monitoring. This is a key advantage over metal-based screws, which can obstruct imaging techniques such as X-rays and CT scans. As a result, PEEK cortical screws are increasingly preferred for their ability to be monitored without interference, helping surgeons track the healing process and the positioning of the screw over time. Another significant factor driving the dominance of cortical screws in the PEEK surgical screws market is the growing number of spinal and orthopedic surgeries. As the aging

population increases globally, the prevalence of degenerative spinal conditions, fractures, and joint disorders rises, leading to a higher demand for fixation devices. The need for long-lasting, durable, and effective screws to stabilize the spine and other load-bearing joints drives the preference for PEEK cortical screws, particularly in spinal fusion and trauma surgeries. Cortical screws, when made from PEEK, provide a combination of high strength and flexibility, ensuring that they are suitable for these rigorous applications while minimizing the risk of complications.

## End Use Insights

Based on the end use segment, hospitals dominated the landscape over outpatient facilities. This dominance is largely due to the nature of the surgical procedures that require PEEK surgical screws, which are more commonly performed in hospital settings due to their complexity and need for comprehensive medical infrastructure. PEEK surgical screws are often used in spinal surgeries, orthopedic procedures, and trauma surgeries, which typically require a high level of medical expertise, specialized equipment, and post-operative care, all of which are more readily available in hospital environments. These surgeries often involve complex or high-risk procedures that require a multi-disciplinary approach, with immediate access to surgical teams, anesthesiologists, and critical care resources, which outpatient facilities typically cannot offer at the same level.

Hospitals are typically equipped with state-of-the-art operating rooms and advanced imaging technologies, which are essential for performing surgeries that involve the use of PEEK surgical screws. For instance, spinal fusion surgeries, which require precise placement of screws to stabilize the vertebrae, necessitate highly sophisticated surgical environments to ensure optimal patient outcomes. PEEK screws are radiolucent, meaning they do not obstruct imaging like traditional metal screws, which allows for real-time monitoring during and after the procedure. Hospitals are equipped with the imaging tools, such as X-rays and CT scans, necessary for assessing screw placement and ensuring there is no post-operative complication. This advanced imaging capability and the availability of post-surgery monitoring make hospitals the preferred setting for surgeries requiring PEEK screws.

## Regional Insights

North America dominated the global PEEK surgical screws market, driven by several factors including advanced healthcare infrastructure, a high volume of orthopedic and spinal surgeries, and significant investments in medical research and development. The



United States, in particular, is a key player in this region, with the largest market share for PEEK surgical screws. The country's well-established healthcare system, combined with a high demand for innovative medical technologies, makes it a global leader in the adoption of advanced materials like PEEK in surgical procedures.

One of the primary drivers of North America's dominance is the high prevalence of spinal disorders and orthopedic conditions, particularly among the aging population. As the elderly population continues to grow, the number of individuals requiring surgeries for conditions like degenerative spine diseases, fractures, and osteoporosis increases. These conditions often necessitate surgical interventions that involve the use of PEEK surgical screws due to the material's superior biocompatibility, strength, and radiolucency, which are essential for spinal and orthopedic procedures. PEEK screws are highly preferred in spinal fusion surgeries, where stability, durability, and minimal interference with imaging technologies are paramount, driving their widespread use in hospitals and surgical centers throughout North America.

North America's healthcare system is marked by its emphasis on patient safety, technological innovation, and minimally invasive surgery (MIS). Surgeons in the region are increasingly adopting PEEK surgical screws for their ability to reduce complications associated with traditional metal implants. The radiolucency of PEEK is a major benefit, as it allows for better monitoring of the surgical site through X-rays and CT scans, which is particularly valuable in complex spinal surgeries. The ongoing adoption of minimally invasive techniques, which demand precision and advanced materials, further fuels the demand for PEEK screws.

### Key Market Players

Orthofix Medical Inc.

Medtronic Plc

Invibio Ltd.

Anika Therapeutics, Inc.

Arthrex, Inc.

Medacta International SA i

Zimmer Biomet Holdings, Inc.

Matrix Meditec Pvt Ltd

MicroPort Scientific Corporation

icotec Medical, Inc.

### Report Scope:

In this report, the Global PEEK Surgical Screws Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

#### PEEK Surgical Screws Market, By Product:

Cortical Screws

Cancellous Screws

Hybrid Screws

#### PEEK Surgical Screws Market, By Application:

Spinal Fixation

Joint Reconstruction

Trauma Fracture Repair

Dental Implants

Others

#### PEEK Surgical Screws Market, By End Use:

Hospitals

Outpatient Facilities

PEEK Surgical Screws Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global PEEK Surgical Screws Market.

## Available Customizations:

Global PEEK Surgical Screws market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

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### 14.6. Medacta International SA i

### 14.7. Zimmer Biomet Holdings, Inc.

### 14.8. Matrix Meditec Pvt Ltd

### 14.9. MicroPort Scientific Corporation

### 14.10. icotec Medical, Inc.

## 15. STRATEGIC RECOMMENDATIONS

## 16. ABOUT US & DISCLAIMER

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