

# **US Pedicle Screw Market Size and Forecasts (2020 - 2030), Regional Share, Trends, and Growth Opportunity Analysis Report Coverage: By Product Type (Polyaxial Pedicle Screw Systems, Monoaxial Pedicle Screw Systems, and Other Pedicle Screw Systems), Application (Fracture, Spinal Tumor, Scoliosis, Failed Fusion, and Spondylitis), Surgery Type (Open Surgery and Minimally Invasive Surgery), End User (Hospitals, Ambulatory Surgical Centers, and Other End Users), and Country Analysis**

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## **Abstracts**

The US pedicle screw market size is expected to grow from US\$ 0.361 billion in 2022 to US\$ 0.610 billion by 2030; it is estimated to register a CAGR of 6.79% from 2022 to 2030.

The pedicle screw system plays an important role in increasing strength and providing support to damage the spinal cord. The escalating number of medical professionals specializing in spinal surgeries is expected to drive the market growth of pedicle screws. According to the data published in Health Central LLC, in 2019, approximately 1.62 million spinal procedures were performed every year in the United States and approximately 313 million surgeries were performed annually, with 500,000 lumbar spine surgeries carried out annually in the United States. Cost is also an important factor in these types of surgeries. For instance, according to the data published in Health Trust-The Source Magazine in 2022, approximately 1.2 million surgeries are performed with an average cost of US\$ 80, 000 for lumbar spinal fusion surgery.

Furthermore, the US pedicle screw system has significantly developed with the rising number of spinal surgeries. Incorporating a navigation system while placing the pedicle screw system is a major development in the pedicle screw system market space. Moreover, robotics is used for pedicle screw placement to augment accuracy and minimize surgical invasiveness. Although robotics in elderly patients has not been studied at a larger scale, this population may benefit significantly from using robotics as a minimally invasive technique to decrease operative time, minimize blood loss, and reduce postoperative pain, ultimately decreasing complications in the near future.

Additionally, the rising adoption of pedicle screw systems in treating degenerative spinal disorders is another driving factor for the market growth. A steep rise in sports-related and spinal cord injury (SCI) injuries and accidental fractures results in surgical procedures, which further results in the usage of pedicle screws. According to the data published by the National Spinal Cord Injury Statistical Center in 2022, the traumatic spinal cord injury (SCI) annual incidence in 2021 was approximately 54 cases per one million people in the United States. Thus, the rising prevalence of spinal cord injury is projected to boost the demand for the pedicle screw market, propelling overall market growth.

#### Increasing Adoption of Minimally Invasive Surgeries Contributing to Market Expansion

The rising adoption of minimally invasive surgeries, coupled with technologically advanced robotic and image-guided (IG) surgeries, is anticipated to boost overall market growth, thereby providing lucrative opportunities for emerging market players. Over the past many years, minimally invasive surgical procedures have become feasible, popular, and efficient for managing spinal disorders. Spinal surgeries using pedicle screw are transforming significantly towards a minimally invasive paradigm. Navigated pedicle screw insertion has been proven fundamental in minimally invasive spinal surgeries. These types of surgeries provide various advantages over open surgeries, such as less damage to soft tissue and muscle, less pain post-surgery, shorter hospital stay, and quicker recovery.

Additionally, many companies in the pedicle screw market are involved in new product innovations to ease the overall surgical procedures. For instance, in January 2023, Orthofix Medical launched a fully commercial mariner deformity pedicle screw system. The product was launched to advance reduction and correct instrumentation, specialized implant technologies, and for osteotomy tools for better surgical intervention. Similarly, in September 2021, Alphatec Holdings, Inc. expanded the

platform spinal fixation with the launch of InVictus OsseoScrew. InVictus OsseScrew was the first commercially available pedicle screw technology designed to optimize fixation and address the clinical challenge of fixation failure in bone.

US pedicle screw market is segmented on the basis of product type, application, surgery type, and end user. By product type, the pedicle screw market is divided into polyaxial pedicle screw systems, monoaxial pedicle screw systems, and other pedicle screw systems. Based on application, the market is segmented into thoracolumbar fracture, spinal tumor, scoliosis, and failed spine fusion spondylitis. On the basis of surgery type, the pedicle screw market is segmented into open surgery and minimally invasive surgery. On the basis of end user, the pedicle screw market is divided into hospitals, ambulatory surgical centers, and specialty clinics.

Moreover, the nation is well-established in terms of technology compared to other developed and emerging countries. Technological advancements in the pedicle screw have resulted in the development of a variety of pedicle screw and associated technologies. The increase in the prevalence of lumbar fracture, spinal deformities, and spinal tumor among the U.S. population and technological advancements in the pedicle screw is fueling the demand for pedicle screws. According to National Health Services in 2022, the lifetime incidence of LBP in the US is reported to be 60%-90% with annual incidence of 5%. Per the same source, 14.3% of new patients visit physicians because of LBP every year and ~13 million people visit physicians due to chronic LBP.

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