

# **North America Pedicle Screws Market Forecast to 2030 – Regional Analysis – by Product Type (Polyaxial Pedicle Screw Systems, Monoaxial Pedicle Screw Systems, and Other Pedicle Screw Systems), Application (Thoracolumbar Fracture, Spinal Tumor, Scoliosis, Failed Spine Fusion, and Spondylitis), Surgery Type (Open Surgery and Minimally Invasive Surgery), and End User (Hospitals, Ambulatory Surgical Centers, and Other End User)**

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## **Abstracts**

The North America pedicle screws market was valued at US\$ 431.03 million in 2022 and is expected to reach US\$ 707.45 million by 2030; it is estimated to grow at a CAGR of 6.4% from 2022 to 2030.

Unprecedented Shift Towards Aging Population Prone to Spinal Disorders fuel the North America Pedicle Screws Market

The pedicle screw system industry has gained traction owing to the rising elderly population prone to various spinal disorders. These population is becoming more susceptible to developing spinal disorders such as degenerative disc diseases, osteoarthritis, scoliosis, spinal tumor, and spinal stenosis. As this population ages, the natural wear and tear of the spine can lead to several spinal disorders. Hence, with this fact, the aging population poses a unique challenge to spine surgeons due to multiple increased frailty, medical comorbidities, decreased nutritional status, and the higher probability of postoperative complications. According to the World Health Organization (WHO) data published in October 2022, approximately 80% of the elderly population will

be living in low-and middle-income countries by 2050, and it is anticipated that the pace of this population aging will be much faster than in the past. Additionally, pedicle screws are widely used during vertebral fracture, vertebral deformity, spinal trauma, spinal tumor etc. Postoperative vertebral fractures with pedicle screw fixation are relatively common complications. The surgical management of these fractures and spinal disorders often requires pedicle screw fixation. For instance, surgical management of scoliosis includes decompression of neutral elements and fusion to realign the spinal segment pedicle screw system. Another study published in the International Journal of Clinical and Experimental Medicine in 2020, investigated minimally invasive percutaneous pedicle screw fixation versus open pedicle screw fixation for senile osteoporotic vertebral fracture and concluded that both open and minimally invasive surgery can provide satisfactory results using pedicle screw fixation. The study also demonstrated that minimally invasive percutaneous pedicle screw fixation is a relatively new treatment type. Hence, the rising adoption of these pedicle screw fixation among these types of surgeries is anticipated to boost the overall market growth.

#### North America Pedicle Screws Market Overview

The pedicle screw market in North America is segmented into the US, Canada, and Mexico. Major market players operating in the US include DePuy Synthes, Stryker, and Intelivation Technologies. These companies engage in product developments and launches to remain competitive in the market. In the US, technologically advanced pedicle screws are widely adopted for various minimally invasive and open surgeries.

#### North America Pedicle Screws Market Revenue and Forecast to 2030 (US\$ Million)

#### North America Pedicle Screws Market Segmentation

The North America pedicle screws market is segmented based on product type, application, end user, surgery type, and country.

Based on product type, the North America pedicle screws market is segmented into polyaxial pedicle screw systems, monoaxial pedicle screw systems, and other pedicle screw systems. The polyaxial pedicle screw systems segment held the largest market share in 2022.

Based on application, the North America pedicle screws market is segmented into thoracolumbar fracture, spinal tumor, scoliosis, failed fusion, and spondylitis. The

thoracolumbar fracture segment held the largest market share in 2022.

Based on surgery type, the North America pedicle screws market is bifurcated into open surgery and minimally invasive surgery. The open surgery segment held a larger market share in 2022.

Based on end user, the North America pedicle screws market is segmented into hospitals, ambulatory surgical centers, and other end users. The hospitals segment held the largest market share in 2022.

Based on country, the North America pedicle screws market is segmented into the US, Canada, and Mexico. The US dominated the North America pedicle screws market share in 2022.

DePuy Synthes; Zimmer Biomet; Globus Medical Inc.; B. Braun SE; Stryker Corp; Medtronic PLC; Surgalign Holdings, Inc.; NuVasive Inc; Orthofix Medical Inc.; and Alphatec Holdings, Inc are some of the leading players operating in the North America pedicle screws market.

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