

Spinal Implants Market Size and Forecast (2021 - 2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Product (Fusion Spinal Implants and Non-Fusion Spinal Implants), Procedure (Foraminotomy, Laminectomy, Spinal Disc Replacement, Spine Fusion, and Discectomy), Material (Titanium, Carbon Fiber, and Stainless Steel), End User (Hospitals, Specialized Clinics, and Ambulatory Surgical Units), and Geography (North America, Europe, Asia Pacific, South & Central America, and Middle East & Africa)

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Abstracts

The spinal implants market size is expected to grow from US\$ 11.88 billion in 2023 to US\$ 19.68 billion by 2031; it is anticipated to record a CAGR of 6.5% from 2023 to 2031.

Market Drivers of the Spinal Implants Market

In recent years, there has been a rise in spinal implant procedures performed worldwide due to innovations in surgical approaches. Technological developments have resulted in the introduction of a wide variety of interbody devices. The newly introduced devices for spinal cord surgeries are now used as alternatives in bone graft materials. With advancements in spinal implant techniques, pedicle screws are now being used for posterior instrumentation. Similarly, the introduction of spinal fusion methods designed for different surgical indications and, surgeon preferences, and patient conditions has

significantly resulted in a rise in the number of spinal implant procedures. These fusion procedures are performed with interbody fusion using stand-alone cages and with anterior, lateral, or posterior approaches. According to a study published in Wolters Kluwer (Clinical Orthopaedics and Related Research Journal) by the Association of Bone and Joint Surgeons in February 2023, the demand for posterior spinal fusion procedures is expected to grow by 80% by 2060. An upsurge in the procedures can be associated with the age-related loss of muscle mass. Thus, an increase in the number of spinal implant procedures bolsters the spinal implants market growth.

Trends in the Spinal Implants Market

Evolution in medical technology has allowed several innovations in the spinal industry. Developments have allowed robotic surgery in the spine surgery arena, which has received much attention. 3D printing is expanding its footprint in medical devices to offer effective implants. Companies have already begun developing 3D-printed implants for spinal fusion and have commercialized them. In July 2021, Orthofix Medical launched its 3D-printed orthopedic device, the FORZA Ti PLIF Spacer System. The system is designed for posterior lumbar interbody fusion (PLIF) surgeries. At the launch of the FORZA Ti PLIF Spacer system, the company also announced the first patient implant using the lumbar interbody device. Similarly, in April 2021, the company launched the Construx Mini Ti spacer system for anterior cervical discectomy and fusion procedures. Likewise, in April 2023, ZSFab reported their 3D-printed titanium implant with a triply periodic minimal lattice structure, a cervical interbody system for anterior cervical discectomy and fusion. ZSFab has shown positive results in two US clinical cases. In 2021, the system received FDA 510(k) clearance; the device is intended to support the fusion of two vertebrae after removing the damaged disc. Many companies have lined up to launch their 3D-printed products. Developments allow patient-specific 3D-printed implants to increase potential benefits to surgical outcomes. In June 2022, Aurora Spine received the FDA's 510(k) clearance for its Dexasolo-L spinal fusion system. The Dexasolo-L spinal fusion system is designed and personalized using the patient's bone density and quality. The system is the first in the market for lumbar spine and is expected to be launched soon. Thus, personalized 3D-printed implants will enable increasing minimally invasive approaches for complex deformities and reduce patient risks, promoting positive results. The advantages of 3D-printed technology include improving the safety and efficiency of spine surgery. It will permit surgeons to pre-plan surgery based on preoperative imaging. The other advantage of 3D-printed implants is that they will reduce the stress of the screw-bone interface, resulting in the minimum risk of implant failure and non-union. Thus, 3D printing technology is expected to hold a promising future once 3D-printed implants are used regularly.

Spinal Implants Market: Segmental Overview

By product, the market is bifurcated into fusion spinal implants and non-fusion spinal implants. The fusion spinal implants segment held the largest market share in 2023, and it is anticipated to register the highest CAGR during the forecast period.

The market, by procedure, is categorized into foraminotomy, laminectomy, spinal disc replacement, spine fusion, and discectomy. The laminectomy segment held the largest market share in 2023 and spine fusion is anticipated to register the highest CAGR during the forecast period.

The spinal implants market, by material, is segmented into titanium, carbon fiber, and stainless steel. The stainless steel segment held the largest market share in 2023 and is anticipated to register the highest CAGR during the forecast period.

The spinal implants market, by end user, is categorized into hospitals, diagnostic and imaging centers, and others. The hospitals segment held the largest spinal implants market share in 2023 and is anticipated to register the highest CAGR during the forecast period.

Spinal Implants Market: Geographical Overview

Asia Pacific is estimated to register the highest CAGR during 2023–2031. Countries in the Asia Pacific, such as India and China, hold significant potential for the growth of the spinal implants market. In 2023, North America held the largest spinal implants market share. The growing adoption of the latest medical device technologies, the high prevalence of spinal injuries, and product innovations by key players contribute to the expansion of the spinal implants market size in North America. For instance, According to the Cleveland Clinic, in the United States, there are about ~18,000 new traumatic spinal cord injury cases each year, which is ~54 cases of spinal cord injury per one million population. Additionally, age-related wear-and-tear triggers the prevalence of lower back pain (LBP) among the geriatric population in the US, which, in turn, fuels the demand for spinal surgeries and implantable devices. According to National Health Services, in 2022, the lifetime incidence of LBP in the US is reported to be 60–90%, with an annual incidence of 5%. The source also states that 14.3% of new patients visit physicians each year because of LBP, and ~13 million people visit physicians due to chronic LBP. Thus, the high prevalence of spinal cord injury and LBP favors the spinal implants market progress.

A few of the major primary and secondary sources referred to while preparing the report on the spinal implants market are the World Bank Data, National Health Service (NHS), FDA (Food and Drug Administration), EMA (European Medicines Agency), and WHO (World Health Organization).

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