

U.S. Lumbar Spine Cages Market Size, Share & Trends Analysis Report By Cage Design (Static Cages, Expandable Cages), By Approach/ Technique (TLIF, PLIF, ALIF, XPLIF, OLIF), By Reconstruction, By Material, And Segment Forecasts, 2025 - 2033

<https://marketpublishers.com/r/U601F767BCC5EN.html>

Date: July 2025

Pages: 100

Price: US\$ 3,950.00 (Single User License)

ID: U601F767BCC5EN

Abstracts

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U.S. Lumbar Spine Cages Market Summary

The U.S. lumbar spine cages market size was estimated at USD 409.58 million in 2024 and is projected to reach USD 593.30 million by 2033, growing at a CAGR of 4.25% from 2025 to 2033. The market growth is driven by the rise in spinal cord injuries (SCIs) globally.

According to WHO estimates, around 15.4 million people worldwide were diagnosed with or are living with spinal cord injuries as of April 2024. Such injuries occur due to spinal nerve compression or damage, affecting the vertebral column's outer side. The primary causes of this compression include spinal degeneration, bone fractures, and various abnormalities. The growth of the market is fueled by the increasing incidence of spinal cord injuries (SCIs) across the globe.

The increasing elderly population, along with a rise in obesity rates, often results in various spinal conditions, including spinal stenosis. This situation boosts the demand for spinal surgeries, contributing to market growth. For example, a study published by the JAMA Network in May 2022 highlighted that lumbar spinal stenosis affects approximately 11% of the older population in the

U.S. Research shows that about 20% of people over 60 exhibit signs of spinal stenosis on imaging examinations. Notably, more than 80% of these cases are asymptomatic and do not require treatment. In addition, obesity is linked to severe lower back issues and raises the risk of recurrence, leading to increased use of spinal devices in healthcare. Spine-related ailments, including degenerative disc diseases, vertebral compression fractures, spondylolisthesis, and spinal stenosis, significantly impact the elderly.

Moreover, the demand for minimally invasive procedures is growing as these procedures result in less trauma & quicker recovery than invasive ones. As the recovery time is shorter, patients' hospital stay is reduced, resulting in lower costs associated with surgery & hospital stay. For instance, XLIF (Extreme Lateral) and DLIF (Direct Lateral Interbody Fusion) are minimally invasive spine surgeries that access the spine from the side of the body. These approaches allow for lumbar cage placement with smaller incisions, less muscle disruption, and faster recovery. They are commonly used for treating degenerative disc disease and spinal instability. Owing to the following factors, minimally invasive surgeries are replacing open/invasive surgeries:

Fewer incision wounds lead to higher patient satisfaction

Economically viable due to the short duration of hospital stays

Fewer cases of postsurgical complications and low mortality

Moreover, a rise in investments to accelerate advancements in spinal surgeries fuels the market growth. For instance, in September 2024, Neo Medical SA (Neo), a MedTech company, received USD 68 million in a Series B financing round led by Gyrus Capital SA (Gyrus) to accelerate its global growth in spine surgery. This investment aims to increase Neo's market share in strategic regions, with an immediate focus on expanding its presence in the U.S. market. Similarly, in August 2024, Spineology, a medical device company, secured USD 25 million in a Series AA funding round led by SV Health Investors. 1315 Capital and existing investor RC Capital also participated.

U.S. Lumbar Spine Cages Market Report Segmentation

This report forecasts revenue growth at the country level and provides an analysis of industry trends in each of the sub segments from 2021 to 2033. For this study, Grand View Research, Inc. has segmented the U.S. lumbar spine cages market report based

on cage design, approach/technique, reconstruction, and material:

Cage Design Outlook (Revenue, USD Million, 2021 - 2033)

Static Cages

Expandable Cages

Approach/Technique Outlook (Revenue, USD Million, 2021 - 2033)

TLIF (Transforaminal Lumbar Interbody Fusion) Cages

PLIF (Posterior Lumbar Interbody Fusion) Cages

ALIF (Anterior Lumbar Interbody Fusion) Cages

XLIF (Extreme Lateral Interbody Fusion) Cages

OLIF (Oblique Lumbar Interbody Fusion) Cages

Reconstruction Outlook (Revenue, USD Million, 2021 - 2033)

Vertebrectomy Cages

Corpectomy Cages

Material Outlook (Revenue, USD Million, 2021 - 2033)

PEEK (Polyether ether ketone)

Titanium

Carbon Fiber Reinforced Polymer (CFRP)

Other Biocompatible Materials

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