

# Polyetheretherketone (PEEK) Implants Market is Projected to Increase at a CAGR of 8.2% Through 2025-2029

*The Business Research Company's  
Polyetheretherketone (PEEK) Implants  
Global Market Report 2025 – Market Size,  
Trends, And Global Forecast 2025-2034*

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Polyetheretherketone (PEEK) Implants Global Market  
Report 2025

What Is The Projected Market Size & Growth Rate Of The [Polyetheretherketone \(PEEK\) Implants Market?](#)

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The market size for polyetheretherketone (PEEK) implants has experienced significant growth over the previous years. The market value is projected to increase from \$1.43 billion in 2024 to \$1.55 billion in 2025, representing a compound annual growth rate (CAGR) of 8.5%. This historic growth has been driven by factors such as a surge in demand for biocompatible materials, an increase in orthopedic and spinal surgeries, a growing population of older individuals, extension of dental implant uses, and an uptick in cases needing cranial and reconstructive implants.

There is an anticipated significant growth in the polyetheretherketone (PEEK) implants market in the coming years. It is projected to increase to a worth of \$2.12 billion by 2029, with a compound annual growth rate (CAGR) of 8.2%. The expansion in the forecast period can be ascribed to rising applications in robotic-assisted operations, development of outpatient surgical centers, increased spending on healthcare, growth in the provision of reimbursement policies for sophisticated implants, and an increasing emphasis on cost-efficient implants. Dominant trends

for the forecast period consist of 3D-printed patient-specific implants, AI-enhanced software for automated anatomical modeling, hybrid PEEK composites, robotic-assisted implant production, and smart implants equipped with sensors.

Download a free sample of the polyetheretherketone (peek) implants market report:

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### What Are The Current Leading Growth Drivers For Polyetheretherketone (PEEK) Implants Market?

The surge in orthopedic surgeries is predicted to catalyze the expansion of the polyetheretherketone (PEEK) implants market in the future. Orthopedic procedures, which are medical treatments designed to manage ailments impacting the musculoskeletal system including bones, joints, ligaments, and muscles, often necessitate the utilization of implants for restoration or replacement. Primarily due to the world's aging population, orthopedic surgeries are on the rise, as this demographic is more susceptible to musculoskeletal disorders such as arthritis, joint breakdown, and fractures. As life expectancy extends, the need for surgical procedures to ensure mobility and quality of life also grows. PEEK implants have emerged as practical, biocompatible substitutes for metal implants in orthopedic surgeries, offering durability, adaptability and radiolucency for enhanced imaging and long-term stabilization of joints or bones. For instance, in December 2023, the UK Health Security Agency (UKHSA), a government entity based in the UK, reported that between the financial years of 2022 and 2023, operations logged under mandatory orthopedic monitoring grew by 7.3%, elevating from 102,027 procedures. Hence, the rise in orthopedic surgeries is propelling the growth of the polyetheretherketone (PEEK) implants market.

### Who Are The Emerging Players In The Polyetheretherketone (PEEK) Implants Market?

Major players in the Polyetheretherketone (PEEK) Implants Global Market Report 2025 include:

- Johnson & Johnson
- Evonik Industries AG
- Stryker Corporation
- Solvay S.A.
- NuVasive Inc.
- 3D Systems Inc.
- Victrex plc
- Treace Medical Concepts Inc.
- Zypeek Medical Technology Co. Ltd.
- Innovasis Inc.

### What Are The Key Trends Shaping The [Polyetheretherketone \(PEEK\) Implants Industry](#)?

Key players in the polyetheretherketone (PEEK) implants market are prioritizing on technological innovation like 3D-printed implants to enhance individualized customization for patients, better surgical results, and quicken recovery periods. A 3D-printed implant is a tailored medical device, made through additive manufacturing technology to align with a patient's personal anatomy,

elevating compatibility, functionality, and the general result of the treatment. For example, in April 2024, the U.S. Food and Drug Administration (FDA) gave 3D Systems, Inc., an American 3D printing solutions provider, 510(k) clearance for its VSP PEEK Cranial Implant, a 3D-printed, patient-specific cranial implant solution. The solution provided incorporates a fully FDA-cleared process including advanced segmentation and 3D modeling software, the EXT 220 MED 3D printer from 3D Systems, VESTAKEEP i4 3DF PEEK material from Evonik, and a streamlined production procedure. This technology, facilitated by additive manufacturing, allows for the making of tailored cranial implants using a significantly lesser amount of material, up to 85% compared to traditional machining processes, considerably reducing the costs tied to high-priced implant-grade PEEK.

What Segments Are Covered In The Polyetheretherketone (PEEK) Implants Market Report?

The polyetheretherketone (peek) implants market covered in this report is segmented –

- 1) By Type: Interbody Devices, Screws, Fixation Plates, Rods, Cages
- 2) By Application: Spinal Fusion, Trauma Surgery, Craniomaxillofacial Surgery, Sports Medicine
- 3) By End User: Hospitals And Clinics, Ambulatory Surgical Centers, Other End Users

Subsegments:

- 1) By Interbody Devices: Cervical Interbody Cages, Lumbar Interbody Cages, Thoracic Interbody Cages, 3D-printed Interbody Implants
- 2) By Screws: Pedicle Screws, Cortical Screws, Cannulated Screws, Locking Screws
- 3) By Fixation Plates: Cranial Fixation Plates, Maxillofacial Fixation Plates, Orthopedic Trauma Plates, Spinal Fixation Plates
- 4) By Rods: Spinal Stabilization Rods, Dynamic Stabilization Rods, Posterior Fixation Rods, Custom Contoured Rods
- 5) By Cages: Anterior Lumbar Interbody Fusion (ALIF) Cages, Posterior Lumbar Interbody Fusion (PLIF) Cages, Transforaminal Lumbar Interbody Fusion (TLIF) Cages, Expandable Cages

View the full polyetheretherketone (peek) implants market report:

<https://www.thebusinessresearchcompany.com/report/polyetheretherketone-peek-implants-global-market-report>

Which Region Is Projected To Hold The Largest Market Share In The Global Polyetheretherketone (PEEK) Implants Market?

In 2024, North America held the largest share in the global Polyetheretherketone (PEEK) implants market. It's projected that the most rapid growth in the forecast period will be seen in the Asia-Pacific region. The report encompasses analyses for regions including Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa.

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