

Europe Joint Resurfacing Devices Market Size and Forecast (2021 - 2031)

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Abstracts

The Europe Joint Resurfacing Devices Market is projected to grow significantly, reaching an estimated US\$ 937.5 million by 2031, up from US\$ 690.2 million in 2024, reflecting a compound annual growth rate (CAGR) of 4.6% from 2025 to 2031. This growth is driven by several factors, including an aging population, advancements in technology, and increasing healthcare investments.

Market Overview

The market is segmented by geography into Germany, the UK, France, Italy, Spain, and the Rest of Europe. Europe's healthcare system is characterized by a mature ecosystem, stringent regulations, and a strong focus on patient-centric innovations. The demographic shift in the region is notable, with Eurostat data indicating that by 2025, over 20% of the EU population will be aged 65 or older. This aging demographic is linked to a significant rise in joint-related surgeries, particularly shoulder surgeries, which have seen a 25% annual increase in countries like Sweden due to conditions such as rotator cuff injuries and osteoarthritis.

Technological Innovations

A key driver of market growth is the adoption of advanced technologies. For instance, DePuy Synthes (a Johnson & Johnson company) launched a digital platform in July 2025 that utilizes artificial intelligence and machine learning for precise resurfacing planning in hip and knee surgeries. This innovation has been shown to improve surgical outcomes and reduce revision rates by up to 20%. Furthermore, national health services in the UK and Germany have increased their budgets for orthopedic care, with Poland allocating US\$ 11.52 billion for hospital upgrades, enhancing access to joint

resurfacing devices that preserve more natural bone compared to full replacements.

Innovations such as Smith and Nephew's REGENETEN Bioinductive Implant, presented at the 2025 AAOS, highlight Europe's commitment to biointegrative materials that promote tissue regeneration. Clinical trials have reported an 85% reduction in pain for resurfaced shoulders, showcasing the effectiveness of these new materials. Despite facing regulatory challenges under the EU Medical Device Regulation (MDR), which delayed some approvals in 2024, the market benefits from collaborative research initiatives, such as those from the European Orthopaedic Research Society, which have led to the development of cementless resurfacing implants with impressive five-year success rates of 95%.

Market Segmentation

The Europe Joint Resurfacing Devices Market is segmented by type into knee, hip, shoulder, ankle, and others, with the knee segment leading the market in 2024. By material, the market is divided into metal, ceramic, and others, with metal being the dominant material. In terms of end users, hospitals, orthopedic clinics, and ambulatory surgical centers are the primary segments, with hospitals holding the largest share.

3D Printing and Customization

The rapid advancements in 3D printing technology are revolutionizing the joint resurfacing market by enabling the production of highly personalized implants tailored to individual patient anatomies. This innovation addresses the limitations of traditional resurfacing devices, which often do not fit optimally, leading to higher revision rates. For example, in complex cases like periacetabular tumor resections, 3D-printed hemipelvic endoprotheses have been successfully used to reconstruct hip joints while preserving limb function. A study involving 16 patients showed promising results, with 15 achieving independent ambulation and significant functional improvements.

Moreover, the Materialise aMace system for hip revisions, which incorporates autologous skeletal stem cells, has demonstrated improved outcomes in a case series, indicating the potential of personalized solutions in enhancing joint resurfacing success rates. The integration of modular components in 3D-printed implants could also reduce recovery times and improve patient outcomes.

Country Insights

Germany is the largest market for joint resurfacing devices in Europe, driven by a high prevalence of degenerative joint diseases among its aging population. With over 18 million individuals aged 65 and above, Germany performs approximately 400,000 joint replacement surgeries annually. The adoption of resurfacing techniques, such as the Birmingham Hip Resurfacing (BHR) system, is increasing due to their bone-preserving benefits. Facilities like Charit? - Universit?tsmedizin Berlin have reported over 500 BHR procedures in 2024, highlighting the effectiveness of these techniques.

Competitive Landscape

Key players in the Europe Joint Resurfacing Devices Market include MicroPort Scientific Corp, Stryker Corp, Zimmer Biomet Holdings Inc, Smith & Nephew Plc, and others. These companies are focusing on strategies such as product innovation, expansion, and mergers and acquisitions to enhance their market presence.

Conclusion

The Europe Joint Resurfacing Devices Market is poised for sustained growth, driven by demographic trends, technological advancements, and increased healthcare investments. The focus on personalized medicine through innovations like 3D printing is expected to further enhance the effectiveness and accessibility of joint resurfacing procedures, ultimately improving patient outcomes across the region.

Contents

1. INTRODUCTION

- 1.1 Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Key Insights
- 2.2 Market Attractiveness

3. RESEARCH METHODOLOGY

- 3.1 Secondary Research
- 3.2 Primary Research
 - 3.2.1 Hypothesis formulation:
 - 3.2.2 Macroeconomic factor analysis:
 - 3.2.3 Developing base number:
 - 3.2.4 Data Triangulation:
 - 3.2.5 Country-level data:

4. JOINT RESURFACING DEVICES MARKET LANDSCAPE

- 4.1 Market Overview

4. 2 PEST ANALYSIS

- 4.2.1 List of Vendors in the Value Chain

5. EUROPE JOINT RESURFACING DEVICES MARKET - KEY MARKET DYNAMICS

- 5.1 Market Drivers
- 5.2 Market Restraints
- 5.3 Market Opportunities
- 5.4 Future Trends
- 5.5 Impact of Drivers and Restraints:

6. JOINT RESURFACING DEVICES MARKET - EUROPE MARKET ANALYSIS

6.1 Europe Joint Resurfacing Devices Market Revenue (US\$ Million), 2024 - 2031

6.2 Europe Joint Resurfacing Devices Market Forecast and Analysis

7. EUROPE JOINT RESURFACING DEVICES MARKET REVENUE ANALYSIS - BY TYPE

7.1 Knee

7.1.1 Overview

7.1.2 Knee: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

7.2 Hip

7.2.1 Overview

7.2.2 Hip: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

7.3 Shoulder

7.3.1 Overview

7.3.2 Shoulder: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

7.4 Ankle

7.4.1 Overview

7.4.2 Ankle: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

7.5 Others

7.5.1 Overview

7.5.2 Others: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

8. EUROPE JOINT RESURFACING DEVICES MARKET REVENUE ANALYSIS - BY MATERIAL

8.1 Metal

8.1.1 Overview

8.1.2 Metal: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

8.2 Ceramic

8.2.1 Overview

8.2.2 Ceramic: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

8.3 Others

8.3.1 Overview

8.3.2 Others: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

9. EUROPE JOINT RESURFACING DEVICES MARKET REVENUE ANALYSIS - BY END USER

9.1 Hospitals

9.1.1 Overview

9.1.2 Hospitals: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

9.2 Orthopedic Clinics

9.2.1 Overview

9.2.2 Orthopedic Clinics: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

9.3 Ambulatory Surgical Centers

9.3.1 Overview

9.3.2 Ambulatory Surgical Centers: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

9.4 Others

9.4.1 Overview

9.4.2 Others: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

10. EUROPE JOINT RESURFACING DEVICES MARKET - COUNTRY ANALYSIS

10.1 Europe

10.1.1 Europe Joint Resurfacing Devices Market Revenue and Forecast and Analysis - by Country

10.1.1.1 Europe Joint Resurfacing Devices Market Revenue and Forecast and Analysis - by Country

10.1.2.2 Germany: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

10.1.2.2.1 Germany: Europe Joint Resurfacing Devices Market Share - by Type

10.1.2.2.2 Germany: Europe Joint Resurfacing Devices Market Share - by Material

10.1.2.2.3 Germany: Europe Joint Resurfacing Devices Market Share - by End User

10.2.3.3 United Kingdom: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

10.2.3.3.1 United Kingdom: Europe Joint Resurfacing Devices Market Share - by Type

10.2.3.3.2 United Kingdom: Europe Joint Resurfacing Devices Market Share - by Material

10.2.3.3.3 United Kingdom: Europe Joint Resurfacing Devices Market Share - by End User

10.3.4.4 France: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

10.3.4.4.1 France: Europe Joint Resurfacing Devices Market Share - by Type

10.3.4.4.2 France: Europe Joint Resurfacing Devices Market Share - by Material

10.3.4.4.3 France: Europe Joint Resurfacing Devices Market Share - by End User

10.4.5.5 Italy: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

10.4.5.5.1 Italy: Europe Joint Resurfacing Devices Market Share - by Type

10.4.5.5.2 Italy: Europe Joint Resurfacing Devices Market Share - by Material

10.4.5.5.3 Italy: Europe Joint Resurfacing Devices Market Share - by End User

10.5.6.6 Spain: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

10.5.6.6.1 Spain: Europe Joint Resurfacing Devices Market Share - by Type

10.5.6.6.2 Spain: Europe Joint Resurfacing Devices Market Share - by Material

10.5.6.6.3 Spain: Europe Joint Resurfacing Devices Market Share - by End User

10.6.7.7 Rest of Europe: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

10.6.7.7.1 Rest of Europe: Europe Joint Resurfacing Devices Market Share - by Type

10.6.7.7.2 Rest of Europe: Europe Joint Resurfacing Devices Market Share - by Material

10.6.7.7.3 Rest of Europe: Europe Joint Resurfacing Devices Market Share - by End User

11 COMPETITIVE LANDSCAPE

11.1 Heat Map Analysis by Key Players

11.2 Company Positioning & Concentration

12 INDUSTRY LANDSCAPE

12.1 Overview

12.2 New Product Development

- 12.3 Merger and Acquisition
- 12.4 Other Strategic Developments

13 COMPANY PROFILES

13.1 MicroPort Scientific Corp

- 13.1.1 Key Facts
- 13.1.2 Business Description
- 13.1.3 Products and Services
- 13.1.4 Financial Overview
- 13.1.5 SWOT Analysis
- 13.1.6 Key Developments

13.2 Stryker Corp

- 13.2.1 Key Facts
- 13.2.2 Business Description
- 13.2.3 Products and Services
- 13.2.4 Financial Overview
- 13.2.5 SWOT Analysis
- 13.2.6 Key Developments

13.3 Zimmer Biomet Holdings Inc

- 13.3.1 Key Facts
- 13.3.2 Business Description
- 13.3.3 Products and Services
- 13.3.4 Financial Overview
- 13.3.5 SWOT Analysis
- 13.3.6 Key Developments

13.4 Smith & Nephew Plc

- 13.4.1 Key Facts
- 13.4.2 Business Description
- 13.4.3 Products and Services
- 13.4.4 Financial Overview
- 13.4.5 SWOT Analysis
- 13.4.6 Key Developments

13.5 JRI Orthopaedics Limited

- 13.5.1 Key Facts
- 13.5.2 Business Description
- 13.5.3 Products and Services
- 13.5.4 Financial Overview
- 13.5.5 SWOT Analysis

- 13.5.6 Key Developments
- 13.6 Enovis Corp
 - 13.6.1 Key Facts
 - 13.6.2 Business Description
 - 13.6.3 Products and Services
 - 13.6.4 Financial Overview
 - 13.6.5 SWOT Analysis
 - 13.6.6 Key Developments
- 13.7 Medacta Group SA
 - 13.7.1 Key Facts
 - 13.7.2 Business Description
 - 13.7.3 Products and Services
 - 13.7.4 Financial Overview
 - 13.7.5 SWOT Analysis
 - 13.7.6 Key Developments
- 13.8 Corin Group
 - 13.8.1 Key Facts
 - 13.8.2 Business Description
 - 13.8.3 Products and Services
 - 13.8.4 Financial Overview
 - 13.8.5 SWOT Analysis
 - 13.8.6 Key Developments
- 13.9 MatOrtho Limited
 - 13.9.1 Key Facts
 - 13.9.2 Business Description
 - 13.9.3 Products and Services
 - 13.9.4 Financial Overview
 - 13.9.5 SWOT Analysis
 - 13.9.6 Key Developments
- 13.10 JointMedica
 - 13.10.1 Key Facts
 - 13.10.2 Business Description
 - 13.10.3 Products and Services
 - 13.10.4 Financial Overview
 - 13.10.5 SWOT Analysis
 - 13.10.6 Key Developments

14. APPENDIX

14.1 About The Insight Partners

List Of Tables

LIST OF TABLES

- Table 1. Europe Joint Resurfacing Devices Market Segmentation
- Table 2. List of Vendors
- Table 3. Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Table 4. Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Type
- Table 5. Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Material
- Table 6. Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by End User
- Table 7. Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Country
- Table 8. Germany: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Type
- Table 9. Germany: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Material
- Table 10. Germany: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by End User
- Table 11. United Kingdom: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Type
- Table 12. United Kingdom: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Material
- Table 13. United Kingdom: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by End User
- Table 14. France: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Type
- Table 15. France: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Material
- Table 16. France: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by End User
- Table 17. Italy: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Type
- Table 18. Italy: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Material
- Table 19. Italy: Europe Joint Resurfacing Devices Market - Revenue and Forecast,

2021 - 2031 (US\$ Million) - by End User

Table 20. Spain: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Type

Table 21. Spain: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Material

Table 22. Spain: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by End User

Table 23. Rest of Europe: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Type

Table 24. Rest of Europe: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Material

Table 25. Rest of Europe: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by End User

Table 26. Heat Map Analysis by Key Players

List Of Figures

LIST OF FIGURES

- Figure 1. Europe Joint Resurfacing Devices Market Segmentation - Country
- Figure 2. PEST Analysis
- Figure 4. Europe Joint Resurfacing Devices Market - Key Market Dynamics
- Figure 5. Impact Analysis of Drivers and Restraints
- Figure 6. Europe Joint Resurfacing Devices Market Revenue (US\$ Million), 2024 - 2031
- Figure 7. Europe Joint Resurfacing Devices Market Share (%) - by Type, 2024 and 2031
- Figure 8. Knee: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 9. Hip: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 10. Shoulder: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 11. Ankle: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 12. Others: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 13. Europe Joint Resurfacing Devices Market Share (%) - by Material, 2024 and 2031
- Figure 14. Metal: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 15. Ceramic: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 16. Others: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 17. Europe Joint Resurfacing Devices Market Share (%) - by End User, 2024 and 2031
- Figure 18. Hospitals: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 19. Orthopedic Clinics: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 20. Ambulatory Surgical Centers: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 21. Others: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 22. Europe Joint Resurfacing Devices Market Breakdown by Key Countries, 2024 and 2031 (%)

Figure 23. Germany: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 24. United Kingdom: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 25. France: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 26. Italy: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 27. Spain: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 28. Rest of Europe: Europe Joint Resurfacing Devices Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 29. Company Positioning & Concentration

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