

Global Peripheral Nerve Repair Scaffold Market Growth 2026-2032

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Abstracts

The global Peripheral Nerve Repair Scaffold market size is predicted to grow from US\$ 283 million in 2025 to US\$ 535 million in 2032; it is expected to grow at a CAGR of 9.8% from 2026 to 2032.

Peripheral nerve repair scaffolds are implantable regenerative materials used in cases of peripheral nerve transection, segmental nerve defects, or adhesion protection following surgical repair. They are typically provided in the form of nerve conduits, wrapping membranes, connectors, protective caps, or decellularized nerve extracellular matrix (ECM) scaffolds. These devices function by providing a physical guidance channel for axonal regrowth, isolating scar tissue infiltration, maintaining a supportive local microenvironment, and reducing donor site morbidity. They assist in restoring sensory or motor nerve function after injury. Key procurement parameters include permissible defect length, material origin, degradation rate, inner diameter specifications, mechanical strength, and regulatory indications. The overall gross margin is approximately 55%.

Demand is primarily driven by trauma surgery, hand surgery, plastic and reconstructive surgery, maxillofacial surgery, and post-decompression peripheral nerve repair. Clinical adoption is increasingly influenced by factors such as reduced operative time, tension-free repair, scar tissue isolation, and stable functional recovery outcomes. As a result, nerve conduits and nerve wrapping materials are gradually becoming important alternatives or complements to autologous nerve grafting.

Product development is focused on bioresorbable materials, optimized pore architecture, internal guidance structures, and bioactive interfaces. Common material systems include collagen, chitosan, synthetic polymers, extracellular matrix derivatives,

and decellularized nerve tissues, each with specific clinical indication boundaries. Leading companies are building multi-product portfolios that cover bridging, wrapping, protective, and long-gap reconstruction applications, while new entrants differentiate through suture-free fixation designs, transparent conduits, and composite scaffold optimization.

Regionally, North America and Europe are driven by mature reimbursement systems, higher microsurgical penetration rates, and active innovation pathways in medical devices. China and Japan are supported by domestic innovation, regenerative medicine policies, and growing demand for advanced hand surgery procedures. Key risks include high clinical evidence thresholds, limited approved indications, pricing pressure, and direct competition with autografts and processed nerve allografts. Key opportunities lie in standardized surgical consumables, long-gap nerve repair solutions, and multi-material composite scaffold systems.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the "Peripheral Nerve Repair Scaffold Industry Forecast" looks at past sales and reviews total world Peripheral Nerve Repair Scaffold sales in 2025, providing a comprehensive analysis by region and market sector of projected Peripheral Nerve Repair Scaffold sales for 2026 through 2032. With Peripheral Nerve Repair Scaffold sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Peripheral Nerve Repair Scaffold industry.

This Insight Report provides a comprehensive analysis of the global Peripheral Nerve Repair Scaffold landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Peripheral Nerve Repair Scaffold portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Peripheral Nerve Repair Scaffold market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Peripheral Nerve Repair Scaffold and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Peripheral Nerve Repair

Scaffold.

This report presents a comprehensive overview, market shares, and growth opportunities of Peripheral Nerve Repair Scaffold market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Nerve Conduit

Nerve Wrap

Nerve Connector

Nerve Cap

Acellular Nerve Scaffold

Segmentation by Material System:

Collagen-based Scaffold

Chitosan-based Scaffold

Synthetic Polymer Scaffold

Porcine ECM Scaffold

Acellular Allograft Scaffold

Segmentation by Supported Gap Length:

No Gap or Coaptation Support

Short Gap ?10 mm

Medium Gap 10–30 mm

Long Gap >30 mm

Other Gap Conditions

Segmentation by Scaffold Structure:

Hollow Tube

Porous Inner Matrix

Fiber-filled Conduit

Sheet or Wrap Matrix

Processed Nerve Matrix

Segmentation by Application:

Primary Nerve Coaptation

Peripheral Nerve Gap Bridging

Nerve Wrapping and Protection

Neuroma Management

Reconstructive Microsurgery

Other Peripheral Nerve Repair

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Axogen

Integra LifeSciences

Stryker

Regenity Biosciences

Polyganics

Toyobo

Synovis Micro Companies Alliance

Arthrex

Checkpoint Surgical

Jiangsu Yitong Biotech

Key Questions Addressed in this Report

What is the 10-year outlook for the global Peripheral Nerve Repair Scaffold market?

What factors are driving Peripheral Nerve Repair Scaffold market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Peripheral Nerve Repair Scaffold market opportunities vary by end market size?

How does Peripheral Nerve Repair Scaffold break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Peripheral Nerve Repair Scaffold Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Peripheral Nerve Repair Scaffold by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Peripheral Nerve Repair Scaffold by Country/Region, 2021, 2025 & 2032
- 2.2 Peripheral Nerve Repair Scaffold Segment by Type
 - 2.2.1 Nerve Conduit
 - 2.2.2 Nerve Wrap
 - 2.2.3 Nerve Connector
 - 2.2.4 Nerve Cap
 - 2.2.5 Acellular Nerve Scaffold
 - 2.2.6 Peripheral Nerve Repair Scaffold Sales by Type
 - 2.2.6.1 Global Peripheral Nerve Repair Scaffold Sales Market Share by Type (2021-2026)
 - 2.2.6.2 Global Peripheral Nerve Repair Scaffold Revenue and Market Share by Type (2021-2026)
 - 2.2.6.3 Global Peripheral Nerve Repair Scaffold Sale Price by Type (2021-2026)
- 2.3 Peripheral Nerve Repair Scaffold Segment by Material System
 - 2.3.1 Collagen-based Scaffold
 - 2.3.2 Chitosan-based Scaffold
 - 2.3.3 Synthetic Polymer Scaffold
 - 2.3.4 Porcine ECM Scaffold
 - 2.3.5 Acellular Allograft Scaffold

2.3.6 Peripheral Nerve Repair Scaffold Sales by Material System

2.3.6.1 Global Peripheral Nerve Repair Scaffold Sales Market Share by Material System (2021-2026)

2.3.6.2 Global Peripheral Nerve Repair Scaffold Revenue and Market Share by Material System (2021-2026)

2.3.6.3 Global Peripheral Nerve Repair Scaffold Sale Price by Material System (2021-2026)

2.4 Peripheral Nerve Repair Scaffold Segment by Supported Gap Length

2.4.1 No Gap or Coaptation Support

2.4.2 Short Gap ?10 mm

2.4.3 Medium Gap 10–30 mm

2.4.4 Long Gap >30 mm

2.4.5 Other Gap Conditions

2.4.6 Peripheral Nerve Repair Scaffold Sales by Supported Gap Length

2.4.6.1 Global Peripheral Nerve Repair Scaffold Sales Market Share by Supported Gap Length (2021-2026)

2.4.6.2 Global Peripheral Nerve Repair Scaffold Revenue and Market Share by Supported Gap Length (2021-2026)

2.4.6.3 Global Peripheral Nerve Repair Scaffold Sale Price by Supported Gap Length (2021-2026)

2.5 Peripheral Nerve Repair Scaffold Segment by Scaffold Structure

2.5.1 Hollow Tube

2.5.2 Porous Inner Matrix

2.5.3 Fiber-filled Conduit

2.5.4 Sheet or Wrap Matrix

2.5.5 Processed Nerve Matrix

2.5.6 Peripheral Nerve Repair Scaffold Sales by Scaffold Structure

2.5.6.1 Global Peripheral Nerve Repair Scaffold Sales Market Share by Scaffold Structure (2021-2026)

2.5.6.2 Global Peripheral Nerve Repair Scaffold Revenue and Market Share by Scaffold Structure (2021-2026)

2.5.6.3 Global Peripheral Nerve Repair Scaffold Sale Price by Scaffold Structure (2021-2026)

2.6 Peripheral Nerve Repair Scaffold Segment by Application

2.6.1 Primary Nerve Coaptation

2.6.2 Peripheral Nerve Gap Bridging

2.6.3 Nerve Wrapping and Protection

2.6.4 Neuroma Management

2.6.5 Reconstructive Microsurgery

2.6.6 Other Peripheral Nerve Repair

2.6.7 Peripheral Nerve Repair Scaffold Sales by Application

2.6.7.1 Global Peripheral Nerve Repair Scaffold Sale Market Share by Application (2021-2026)

2.6.7.2 Global Peripheral Nerve Repair Scaffold Revenue and Market Share by Application (2021-2026)

2.6.7.3 Global Peripheral Nerve Repair Scaffold Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Peripheral Nerve Repair Scaffold Breakdown Data by Company

3.1.1 Global Peripheral Nerve Repair Scaffold Annual Sales by Company (2021-2026)

3.1.2 Global Peripheral Nerve Repair Scaffold Sales Market Share by Company (2021-2026)

3.2 Global Peripheral Nerve Repair Scaffold Annual Revenue by Company (2021-2026)

3.2.1 Global Peripheral Nerve Repair Scaffold Revenue by Company (2021-2026)

3.2.2 Global Peripheral Nerve Repair Scaffold Revenue Market Share by Company (2021-2026)

3.3 Global Peripheral Nerve Repair Scaffold Sale Price by Company

3.4 Key Manufacturers Peripheral Nerve Repair Scaffold Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Peripheral Nerve Repair Scaffold Product Location Distribution

3.4.2 Players Peripheral Nerve Repair Scaffold Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR PERIPHERAL NERVE REPAIR SCAFFOLD BY GEOGRAPHIC REGION

4.1 World Historic Peripheral Nerve Repair Scaffold Market Size by Geographic Region (2021-2026)

4.1.1 Global Peripheral Nerve Repair Scaffold Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Peripheral Nerve Repair Scaffold Annual Revenue by Geographic Region

(2021-2026)

4.2 World Historic Peripheral Nerve Repair Scaffold Market Size by Country/Region
(2021-2026)

4.2.1 Global Peripheral Nerve Repair Scaffold Annual Sales by Country/Region
(2021-2026)

4.2.2 Global Peripheral Nerve Repair Scaffold Annual Revenue by Country/Region
(2021-2026)

4.3 Americas Peripheral Nerve Repair Scaffold Sales Growth

4.4 APAC Peripheral Nerve Repair Scaffold Sales Growth

4.5 Europe Peripheral Nerve Repair Scaffold Sales Growth

4.6 Middle East & Africa Peripheral Nerve Repair Scaffold Sales Growth

5 AMERICAS

5.1 Americas Peripheral Nerve Repair Scaffold Sales by Country

5.1.1 Americas Peripheral Nerve Repair Scaffold Sales by Country (2021-2026)

5.1.2 Americas Peripheral Nerve Repair Scaffold Revenue by Country (2021-2026)

5.2 Americas Peripheral Nerve Repair Scaffold Sales by Type (2021-2026)

5.3 Americas Peripheral Nerve Repair Scaffold Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Peripheral Nerve Repair Scaffold Sales by Region

6.1.1 APAC Peripheral Nerve Repair Scaffold Sales by Region (2021-2026)

6.1.2 APAC Peripheral Nerve Repair Scaffold Revenue by Region (2021-2026)

6.2 APAC Peripheral Nerve Repair Scaffold Sales by Type (2021-2026)

6.3 APAC Peripheral Nerve Repair Scaffold Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Peripheral Nerve Repair Scaffold by Country

7.1.1 Europe Peripheral Nerve Repair Scaffold Sales by Country (2021-2026)

7.1.2 Europe Peripheral Nerve Repair Scaffold Revenue by Country (2021-2026)

7.2 Europe Peripheral Nerve Repair Scaffold Sales by Type (2021-2026)

7.3 Europe Peripheral Nerve Repair Scaffold Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Peripheral Nerve Repair Scaffold by Country

8.1.1 Middle East & Africa Peripheral Nerve Repair Scaffold Sales by Country (2021-2026)

8.1.2 Middle East & Africa Peripheral Nerve Repair Scaffold Revenue by Country (2021-2026)

8.2 Middle East & Africa Peripheral Nerve Repair Scaffold Sales by Type (2021-2026)

8.3 Middle East & Africa Peripheral Nerve Repair Scaffold Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Peripheral Nerve Repair Scaffold

10.3 Manufacturing Process Analysis of Peripheral Nerve Repair Scaffold

10.4 Industry Chain Structure of Peripheral Nerve Repair Scaffold

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Peripheral Nerve Repair Scaffold Distributors

11.3 Peripheral Nerve Repair Scaffold Customer

12 WORLD FORECAST REVIEW FOR PERIPHERAL NERVE REPAIR SCAFFOLD BY GEOGRAPHIC REGION

12.1 Global Peripheral Nerve Repair Scaffold Market Size Forecast by Region

12.1.1 Global Peripheral Nerve Repair Scaffold Forecast by Region (2027-2032)

12.1.2 Global Peripheral Nerve Repair Scaffold Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Peripheral Nerve Repair Scaffold Forecast by Type (2027-2032)

12.7 Global Peripheral Nerve Repair Scaffold Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Axogen

13.1.1 Axogen Company Information

13.1.2 Axogen Peripheral Nerve Repair Scaffold Product Portfolios and Specifications

13.1.3 Axogen Peripheral Nerve Repair Scaffold Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Axogen Main Business Overview

13.1.5 Axogen Latest Developments

13.2 Integra LifeSciences

13.2.1 Integra LifeSciences Company Information

13.2.2 Integra LifeSciences Peripheral Nerve Repair Scaffold Product Portfolios and Specifications

13.2.3 Integra LifeSciences Peripheral Nerve Repair Scaffold Sales, Revenue, Price

and Gross Margin (2021-2026)

13.2.4 Integra LifeSciences Main Business Overview

13.2.5 Integra LifeSciences Latest Developments

13.3 Stryker

13.3.1 Stryker Company Information

13.3.2 Stryker Peripheral Nerve Repair Scaffold Product Portfolios and Specifications

13.3.3 Stryker Peripheral Nerve Repair Scaffold Sales, Revenue, Price and Gross

Margin (2021-2026)

13.3.4 Stryker Main Business Overview

13.3.5 Stryker Latest Developments

13.4 Regenity Biosciences

13.4.1 Regenity Biosciences Company Information

13.4.2 Regenity Biosciences Peripheral Nerve Repair Scaffold Product Portfolios and Specifications

13.4.3 Regenity Biosciences Peripheral Nerve Repair Scaffold Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Regenity Biosciences Main Business Overview

13.4.5 Regenity Biosciences Latest Developments

13.5 Polyganics

13.5.1 Polyganics Company Information

13.5.2 Polyganics Peripheral Nerve Repair Scaffold Product Portfolios and Specifications

13.5.3 Polyganics Peripheral Nerve Repair Scaffold Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Polyganics Main Business Overview

13.5.5 Polyganics Latest Developments

13.6 Toyobo

13.6.1 Toyobo Company Information

13.6.2 Toyobo Peripheral Nerve Repair Scaffold Product Portfolios and Specifications

13.6.3 Toyobo Peripheral Nerve Repair Scaffold Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Toyobo Main Business Overview

13.6.5 Toyobo Latest Developments

13.7 Synovis Micro Companies Alliance

13.7.1 Synovis Micro Companies Alliance Company Information

13.7.2 Synovis Micro Companies Alliance Peripheral Nerve Repair Scaffold Product Portfolios and Specifications

13.7.3 Synovis Micro Companies Alliance Peripheral Nerve Repair Scaffold Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Synovis Micro Companies Alliance Main Business Overview

13.7.5 Synovis Micro Companies Alliance Latest Developments

13.8 Arthrex

13.8.1 Arthrex Company Information

13.8.2 Arthrex Peripheral Nerve Repair Scaffold Product Portfolios and Specifications

13.8.3 Arthrex Peripheral Nerve Repair Scaffold Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Arthrex Main Business Overview

13.8.5 Arthrex Latest Developments

13.9 Checkpoint Surgical

13.9.1 Checkpoint Surgical Company Information

13.9.2 Checkpoint Surgical Peripheral Nerve Repair Scaffold Product Portfolios and Specifications

13.9.3 Checkpoint Surgical Peripheral Nerve Repair Scaffold Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Checkpoint Surgical Main Business Overview

13.9.5 Checkpoint Surgical Latest Developments

13.10 Jiangsu Yitong Biotech

13.10.1 Jiangsu Yitong Biotech Company Information

13.10.2 Jiangsu Yitong Biotech Peripheral Nerve Repair Scaffold Product Portfolios and Specifications

13.10.3 Jiangsu Yitong Biotech Peripheral Nerve Repair Scaffold Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Jiangsu Yitong Biotech Main Business Overview

13.10.5 Jiangsu Yitong Biotech Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Peripheral Nerve Repair Scaffold Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Peripheral Nerve Repair Scaffold Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Nerve Conduit

Table 4. Major Players of Nerve Wrap

Table 5. Major Players of Nerve Connector

Table 6. Major Players of Nerve Cap

Table 7. Major Players of Acellular Nerve Scaffold

Table 8. Global Peripheral Nerve Repair Scaffold Sales by Type (2021-2026) & (Units)

Table 9. Global Peripheral Nerve Repair Scaffold Sales Market Share by Type (2021-2026)

Table 10. Global Peripheral Nerve Repair Scaffold Revenue by Type (2021-2026) & (\$ million)

Table 11. Global Peripheral Nerve Repair Scaffold Revenue Market Share by Type (2021-2026)

Table 12. Global Peripheral Nerve Repair Scaffold Sale Price by Type (2021-2026) & (US\$/Unit)

Table 13. Major Players of Collagen-based Scaffold

Table 14. Major Players of Chitosan-based Scaffold

Table 15. Major Players of Synthetic Polymer Scaffold

Table 16. Major Players of Porcine ECM Scaffold

Table 17. Major Players of Acellular Allograft Scaffold

Table 18. Global Peripheral Nerve Repair Scaffold Sales by Material System (2021-2026) & (Units)

Table 19. Global Peripheral Nerve Repair Scaffold Sales Market Share by Material System (2021-2026)

Table 20. Global Peripheral Nerve Repair Scaffold Revenue by Material System (2021-2026) & (\$ million)

Table 21. Global Peripheral Nerve Repair Scaffold Revenue Market Share by Material System (2021-2026)

Table 22. Global Peripheral Nerve Repair Scaffold Sale Price by Material System (2021-2026) & (US\$/Unit)

Table 23. Major Players of No Gap or Coaptation Support

Table 24. Major Players of Short Gap ?10 mm

Table 25. Major Players of Medium Gap 10–30 mm

Table 26. Major Players of Long Gap >30 mm

Table 27. Major Players of Other Gap Conditions

Table 28. Global Peripheral Nerve Repair Scaffold Sales by Supported Gap Length (2021-2026) & (Units)

Table 29. Global Peripheral Nerve Repair Scaffold Sales Market Share by Supported Gap Length (2021-2026)

Table 30. Global Peripheral Nerve Repair Scaffold Revenue by Supported Gap Length (2021-2026) & (\$ million)

Table 31. Global Peripheral Nerve Repair Scaffold Revenue Market Share by Supported Gap Length (2021-2026)

Table 32. Global Peripheral Nerve Repair Scaffold Sale Price by Supported Gap Length (2021-2026) & (US\$/Unit)

Table 33. Major Players of Hollow Tube

Table 34. Major Players of Porous Inner Matrix

Table 35. Major Players of Fiber-filled Conduit

Table 36. Major Players of Sheet or Wrap Matrix

Table 37. Major Players of Processed Nerve Matrix

Table 38. Global Peripheral Nerve Repair Scaffold Sales by Scaffold Structure (2021-2026) & (Units)

Table 39. Global Peripheral Nerve Repair Scaffold Sales Market Share by Scaffold Structure (2021-2026)

Table 40. Global Peripheral Nerve Repair Scaffold Revenue by Scaffold Structure (2021-2026) & (\$ million)

Table 41. Global Peripheral Nerve Repair Scaffold Revenue Market Share by Scaffold Structure (2021-2026)

Table 42. Global Peripheral Nerve Repair Scaffold Sale Price by Scaffold Structure (2021-2026) & (US\$/Unit)

Table 43. Global Peripheral Nerve Repair Scaffold Sale by Application (2021-2026) & (Units)

Table 44. Global Peripheral Nerve Repair Scaffold Sale Market Share by Application (2021-2026)

Table 45. Global Peripheral Nerve Repair Scaffold Revenue by Application (2021-2026) & (\$ million)

Table 46. Global Peripheral Nerve Repair Scaffold Revenue Market Share by Application (2021-2026)

Table 47. Global Peripheral Nerve Repair Scaffold Sale Price by Application (2021-2026) & (US\$/Unit)

Table 48. Global Peripheral Nerve Repair Scaffold Sales by Company (2021-2026) &

(Units)

Table 49. Global Peripheral Nerve Repair Scaffold Sales Market Share by Company (2021-2026)

Table 50. Global Peripheral Nerve Repair Scaffold Revenue by Company (2021-2026) & (\$ millions)

Table 51. Global Peripheral Nerve Repair Scaffold Revenue Market Share by Company (2021-2026)

Table 52. Global Peripheral Nerve Repair Scaffold Sale Price by Company (2021-2026) & (US\$/Unit)

Table 53. Key Manufacturers Peripheral Nerve Repair Scaffold Producing Area Distribution and Sales Area

Table 54. Players Peripheral Nerve Repair Scaffold Products Offered

Table 55. Peripheral Nerve Repair Scaffold Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 56. New Products and Potential Entrants

Table 57. Market M&A Activity & Strategy

Table 58. Global Peripheral Nerve Repair Scaffold Sales by Geographic Region (2021-2026) & (Units)

Table 59. Global Peripheral Nerve Repair Scaffold Sales Market Share Geographic Region (2021-2026)

Table 60. Global Peripheral Nerve Repair Scaffold Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 61. Global Peripheral Nerve Repair Scaffold Revenue Market Share by Geographic Region (2021-2026)

Table 62. Global Peripheral Nerve Repair Scaffold Sales by Country/Region (2021-2026) & (Units)

Table 63. Global Peripheral Nerve Repair Scaffold Sales Market Share by Country/Region (2021-2026)

Table 64. Global Peripheral Nerve Repair Scaffold Revenue by Country/Region (2021-2026) & (\$ millions)

Table 65. Global Peripheral Nerve Repair Scaffold Revenue Market Share by Country/Region (2021-2026)

Table 66. Americas Peripheral Nerve Repair Scaffold Sales by Country (2021-2026) & (Units)

Table 67. Americas Peripheral Nerve Repair Scaffold Sales Market Share by Country (2021-2026)

Table 68. Americas Peripheral Nerve Repair Scaffold Revenue by Country (2021-2026) & (\$ millions)

Table 69. Americas Peripheral Nerve Repair Scaffold Sales by Type (2021-2026) &

(Units)

Table 70. Americas Peripheral Nerve Repair Scaffold Sales by Application (2021-2026) & (Units)

Table 71. APAC Peripheral Nerve Repair Scaffold Sales by Region (2021-2026) & (Units)

Table 72. APAC Peripheral Nerve Repair Scaffold Sales Market Share by Region (2021-2026)

Table 73. APAC Peripheral Nerve Repair Scaffold Revenue by Region (2021-2026) & (\$ millions)

Table 74. APAC Peripheral Nerve Repair Scaffold Sales by Type (2021-2026) & (Units)

Table 75. APAC Peripheral Nerve Repair Scaffold Sales by Application (2021-2026) & (Units)

Table 76. Europe Peripheral Nerve Repair Scaffold Sales by Country (2021-2026) & (Units)

Table 77. Europe Peripheral Nerve Repair Scaffold Revenue by Country (2021-2026) & (\$ millions)

Table 78. Europe Peripheral Nerve Repair Scaffold Sales by Type (2021-2026) & (Units)

Table 79. Europe Peripheral Nerve Repair Scaffold Sales by Application (2021-2026) & (Units)

Table 80. Middle East & Africa Peripheral Nerve Repair Scaffold Sales by Country (2021-2026) & (Units)

Table 81. Middle East & Africa Peripheral Nerve Repair Scaffold Revenue Market Share by Country (2021-2026)

Table 82. Middle East & Africa Peripheral Nerve Repair Scaffold Sales by Type (2021-2026) & (Units)

Table 83. Middle East & Africa Peripheral Nerve Repair Scaffold Sales by Application (2021-2026) & (Units)

Table 84. Key Market Drivers & Growth Opportunities of Peripheral Nerve Repair Scaffold

Table 85. Key Market Challenges & Risks of Peripheral Nerve Repair Scaffold

Table 86. Key Industry Trends of Peripheral Nerve Repair Scaffold

Table 87. Peripheral Nerve Repair Scaffold Raw Material

Table 88. Key Suppliers of Raw Materials

Table 89. Peripheral Nerve Repair Scaffold Distributors List

Table 90. Peripheral Nerve Repair Scaffold Customer List

Table 91. Global Peripheral Nerve Repair Scaffold Sales Forecast by Region (2027-2032) & (Units)

Table 92. Global Peripheral Nerve Repair Scaffold Revenue Forecast by Region

(2027-2032) & (\$ millions)

Table 93. Americas Peripheral Nerve Repair Scaffold Sales Forecast by Country

(2027-2032) & (Units)

Table 94. Americas Peripheral Nerve Repair Scaffold Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 95. APAC Peripheral Nerve Repair Scaffold Sales Forecast by Region (2027-2032) & (Units)

Table 96. APAC Peripheral Nerve Repair Scaffold Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 97. Europe Peripheral Nerve Repair Scaffold Sales Forecast by Country (2027-2032) & (Units)

Table 98. Europe Peripheral Nerve Repair Scaffold Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 99. Middle East & Africa Peripheral Nerve Repair Scaffold Sales Forecast by Country (2027-2032) & (Units)

Table 100. Middle East & Africa Peripheral Nerve Repair Scaffold Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 101. Global Peripheral Nerve Repair Scaffold Sales Forecast by Type (2027-2032) & (Units)

Table 102. Global Peripheral Nerve Repair Scaffold Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 103. Global Peripheral Nerve Repair Scaffold Sales Forecast by Application (2027-2032) & (Units)

Table 104. Global Peripheral Nerve Repair Scaffold Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 105. Axogen Basic Information, Peripheral Nerve Repair Scaffold Manufacturing Base, Sales Area and Its Competitors

Table 106. Axogen Peripheral Nerve Repair Scaffold Product Portfolios and Specifications

Table 107. Axogen Peripheral Nerve Repair Scaffold Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 108. Axogen Main Business

Table 109. Axogen Latest Developments

Table 110. Integra LifeSciences Basic Information, Peripheral Nerve Repair Scaffold Manufacturing Base, Sales Area and Its Competitors

Table 111. Integra LifeSciences Peripheral Nerve Repair Scaffold Product Portfolios and Specifications

Table 112. Integra LifeSciences Peripheral Nerve Repair Scaffold Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 113. Integra LifeSciences Main Business

Table 114. Integra LifeSciences Latest Developments

Table 115. Stryker Basic Information, Peripheral Nerve Repair Scaffold Manufacturing Base, Sales Area and Its Competitors

Table 116. Stryker Peripheral Nerve Repair Scaffold Product Portfolios and Specifications

Table 117. Stryker Peripheral Nerve Repair Scaffold Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 118. Stryker Main Business

Table 119. Stryker Latest Developments

Table 120. Regenity Biosciences Basic Information, Peripheral Nerve Repair Scaffold Manufacturing Base, Sales Area and Its Competitors

Table 121. Regenity Biosciences Peripheral Nerve Repair Scaffold Product Portfolios and Specifications

Table 122. Regenity Biosciences Peripheral Nerve Repair Scaffold Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 123. Regenity Biosciences Main Business

Table 124. Regenity Biosciences Latest Developments

Table 125. Polyganics Basic Information, Peripheral Nerve Repair Scaffold Manufacturing Base, Sales Area and Its Competitors

Table 126. Polyganics Peripheral Nerve Repair Scaffold Product Portfolios and Specifications

Table 127. Polyganics Peripheral Nerve Repair Scaffold Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 128. Polyganics Main Business

Table 129. Polyganics Latest Developments

Table 130. Toyobo Basic Information, Peripheral Nerve Repair Scaffold Manufacturing Base, Sales Area and Its Competitors

Table 131. Toyobo Peripheral Nerve Repair Scaffold Product Portfolios and Specifications

Table 132. Toyobo Peripheral Nerve Repair Scaffold Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 133. Toyobo Main Business

Table 134. Toyobo Latest Developments

Table 135. Synovis Micro Companies Alliance Basic Information, Peripheral Nerve Repair Scaffold Manufacturing Base, Sales Area and Its Competitors

Table 136. Synovis Micro Companies Alliance Peripheral Nerve Repair Scaffold Product Portfolios and Specifications

Table 137. Synovis Micro Companies Alliance Peripheral Nerve Repair Scaffold Sales

(Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 138. Synovis Micro Companies Alliance Main Business

Table 139. Synovis Micro Companies Alliance Latest Developments

Table 140. Arthrex Basic Information, Peripheral Nerve Repair Scaffold Manufacturing Base, Sales Area and Its Competitors

Table 141. Arthrex Peripheral Nerve Repair Scaffold Product Portfolios and Specifications

Table 142. Arthrex Peripheral Nerve Repair Scaffold Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 143. Arthrex Main Business

Table 144. Arthrex Latest Developments

Table 145. Checkpoint Surgical Basic Information, Peripheral Nerve Repair Scaffold Manufacturing Base, Sales Area and Its Competitors

Table 146. Checkpoint Surgical Peripheral Nerve Repair Scaffold Product Portfolios and Specifications

Table 147. Checkpoint Surgical Peripheral Nerve Repair Scaffold Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 148. Checkpoint Surgical Main Business

Table 149. Checkpoint Surgical Latest Developments

Table 150. Jiangsu Yitong Biotech Basic Information, Peripheral Nerve Repair Scaffold Manufacturing Base, Sales Area and Its Competitors

Table 151. Jiangsu Yitong Biotech Peripheral Nerve Repair Scaffold Product Portfolios and Specifications

Table 152. Jiangsu Yitong Biotech Peripheral Nerve Repair Scaffold Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 153. Jiangsu Yitong Biotech Main Business

Table 154. Jiangsu Yitong Biotech Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Peripheral Nerve Repair Scaffold
- Figure 2. Peripheral Nerve Repair Scaffold Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Peripheral Nerve Repair Scaffold Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global Peripheral Nerve Repair Scaffold Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Peripheral Nerve Repair Scaffold Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Peripheral Nerve Repair Scaffold Sales Market Share by Country/Region (2025)
- Figure 10. Peripheral Nerve Repair Scaffold Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Nerve Conduit
- Figure 12. Product Picture of Nerve Wrap
- Figure 13. Product Picture of Nerve Connector
- Figure 14. Product Picture of Nerve Cap
- Figure 15. Product Picture of Acellular Nerve Scaffold
- Figure 16. Global Peripheral Nerve Repair Scaffold Sales Market Share by Type in 2026
- Figure 17. Global Peripheral Nerve Repair Scaffold Revenue Market Share by Type (2021-2026)
- Figure 18. Product Picture of Collagen-based Scaffold
- Figure 19. Product Picture of Chitosan-based Scaffold
- Figure 20. Product Picture of Synthetic Polymer Scaffold
- Figure 21. Product Picture of Porcine ECM Scaffold
- Figure 22. Product Picture of Acellular Allograft Scaffold
- Figure 23. Global Peripheral Nerve Repair Scaffold Sales Market Share by Material System in 2026
- Figure 24. Global Peripheral Nerve Repair Scaffold Revenue Market Share by Material System (2021-2026)
- Figure 25. Product Picture of No Gap or Coaptation Support
- Figure 26. Product Picture of Short Gap ?10 mm
- Figure 27. Product Picture of Medium Gap 10–30 mm

Figure 28. Product Picture of Long Gap >30 mm

Figure 29. Product Picture of Other Gap Conditions

Figure 30. Global Peripheral Nerve Repair Scaffold Sales Market Share by Supported Gap Length in 2026

Figure 31. Global Peripheral Nerve Repair Scaffold Revenue Market Share by Supported Gap Length (2021-2026)

Figure 32. Product Picture of Hollow Tube

Figure 33. Product Picture of Porous Inner Matrix

Figure 34. Product Picture of Fiber-filled Conduit

Figure 35. Product Picture of Sheet or Wrap Matrix

Figure 36. Product Picture of Processed Nerve Matrix

Figure 37. Global Peripheral Nerve Repair Scaffold Sales Market Share by Scaffold Structure in 2026

Figure 38. Global Peripheral Nerve Repair Scaffold Revenue Market Share by Scaffold Structure (2021-2026)

Figure 39. Peripheral Nerve Repair Scaffold Consumed in Primary Nerve Coaptation

Figure 40. Global Peripheral Nerve Repair Scaffold Market: Primary Nerve Coaptation (2021-2026) & (Units)

Figure 41. Peripheral Nerve Repair Scaffold Consumed in Peripheral Nerve Gap Bridging

Figure 42. Global Peripheral Nerve Repair Scaffold Market: Peripheral Nerve Gap Bridging (2021-2026) & (Units)

Figure 43. Peripheral Nerve Repair Scaffold Consumed in Nerve Wrapping and Protection

Figure 44. Global Peripheral Nerve Repair Scaffold Market: Nerve Wrapping and Protection (2021-2026) & (Units)

Figure 45. Peripheral Nerve Repair Scaffold Consumed in Neuroma Management

Figure 46. Global Peripheral Nerve Repair Scaffold Market: Neuroma Management (2021-2026) & (Units)

Figure 47. Peripheral Nerve Repair Scaffold Consumed in Reconstructive Microsurgery

Figure 48. Global Peripheral Nerve Repair Scaffold Market: Reconstructive Microsurgery (2021-2026) & (Units)

Figure 49. Peripheral Nerve Repair Scaffold Consumed in Other Peripheral Nerve Repair

Figure 50. Global Peripheral Nerve Repair Scaffold Market: Other Peripheral Nerve Repair (2021-2026) & (Units)

Figure 51. Global Peripheral Nerve Repair Scaffold Sale Market Share by Application (2025)

Figure 52. Global Peripheral Nerve Repair Scaffold Revenue Market Share by

Application in 2025

Figure 53. Peripheral Nerve Repair Scaffold Sales by Company in 2025 (Units)

Figure 54. Global Peripheral Nerve Repair Scaffold Sales Market Share by Company in 2025

Figure 55. Peripheral Nerve Repair Scaffold Revenue by Company in 2025 (\$ millions)

Figure 56. Global Peripheral Nerve Repair Scaffold Revenue Market Share by Company in 2025

Figure 57. Global Peripheral Nerve Repair Scaffold Sales Market Share by Geographic Region (2021-2026)

Figure 58. Global Peripheral Nerve Repair Scaffold Revenue Market Share by Geographic Region in 2025

Figure 59. Americas Peripheral Nerve Repair Scaffold Sales 2021-2026 (Units)

Figure 60. Americas Peripheral Nerve Repair Scaffold Revenue 2021-2026 (\$ millions)

Figure 61. APAC Peripheral Nerve Repair Scaffold Sales 2021-2026 (Units)

Figure 62. APAC Peripheral Nerve Repair Scaffold Revenue 2021-2026 (\$ millions)

Figure 63. Europe Peripheral Nerve Repair Scaffold Sales 2021-2026 (Units)

Figure 64. Europe Peripheral Nerve Repair Scaffold Revenue 2021-2026 (\$ millions)

Figure 65. Middle East & Africa Peripheral Nerve Repair Scaffold Sales 2021-2026 (Units)

Figure 66. Middle East & Africa Peripheral Nerve Repair Scaffold Revenue 2021-2026 (\$ millions)

Figure 67. Americas Peripheral Nerve Repair Scaffold Sales Market Share by Country in 2025

Figure 68. Americas Peripheral Nerve Repair Scaffold Revenue Market Share by Country (2021-2026)

Figure 69. Americas Peripheral Nerve Repair Scaffold Sales Market Share by Type (2021-2026)

Figure 70. Americas Peripheral Nerve Repair Scaffold Sales Market Share by Application (2021-2026)

Figure 71. United States Peripheral Nerve Repair Scaffold Revenue Growth 2021-2026 (\$ millions)

Figure 72. Canada Peripheral Nerve Repair Scaffold Revenue Growth 2021-2026 (\$ millions)

Figure 73. Mexico Peripheral Nerve Repair Scaffold Revenue Growth 2021-2026 (\$ millions)

Figure 74. Brazil Peripheral Nerve Repair Scaffold Revenue Growth 2021-2026 (\$ millions)

Figure 75. APAC Peripheral Nerve Repair Scaffold Sales Market Share by Region in 2025

Figure 76. APAC Peripheral Nerve Repair Scaffold Revenue Market Share by Region (2021-2026)

Figure 77. APAC Peripheral Nerve Repair Scaffold Sales Market Share by Type (2021-2026)

Figure 78. APAC Peripheral Nerve Repair Scaffold Sales Market Share by Application (2021-2026)

Figure 79. China Peripheral Nerve Repair Scaffold Revenue Growth 2021-2026 (\$ millions)

Figure 80. Japan Peripheral Nerve Repair Scaffold Revenue Growth 2021-2026 (\$ millions)

Figure 81. South Korea Peripheral Nerve Repair Scaffold Revenue Growth 2021-2026 (\$ millions)

Figure 82. Southeast Asia Peripheral Nerve Repair Scaffold Revenue Growth 2021-2026 (\$ millions)

Figure 83. India Peripheral Nerve Repair Scaffold Revenue Growth 2021-2026 (\$ millions)

Figure 84. Australia Peripheral Nerve Repair Scaffold Revenue Growth 2021-2026 (\$ millions)

Figure 85. China Taiwan Peripheral Nerve Repair Scaffold Revenue Growth 2021-2026 (\$ millions)

Figure 86. Europe Peripheral Nerve Repair Scaffold Sales Market Share by Country in 2025

Figure 87. Europe Peripheral Nerve Repair Scaffold Revenue Market Share by Country (2021-2026)

Figure 88. Europe Peripheral Nerve Repair Scaffold Sales Market Share by Type (2021-2026)

Figure 89. Europe Peripheral Nerve Repair Scaffold Sales Market Share by Application (2021-2026)

Figure 90. Germany Peripheral Nerve Repair Scaffold Revenue Growth 2021-2026 (\$ millions)

Figure 91. France Peripheral Nerve Repair Scaffold Revenue Growth 2021-2026 (\$ millions)

Figure 92. UK Peripheral Nerve Repair Scaffold Revenue Growth 2021-2026 (\$ millions)

Figure 93. Italy Peripheral Nerve Repair Scaffold Revenue Growth 2021-2026 (\$ millions)

Figure 94. Russia Peripheral Nerve Repair Scaffold Revenue Growth 2021-2026 (\$ millions)

Figure 95. Middle East & Africa Peripheral Nerve Repair Scaffold Sales Market Share

by Country (2021-2026)

Figure 96. Middle East & Africa Peripheral Nerve Repair Scaffold Sales Market Share by Type (2021-2026)

Figure 97. Middle East & Africa Peripheral Nerve Repair Scaffold Sales Market Share by Application (2021-2026)

Figure 98. Egypt Peripheral Nerve Repair Scaffold Revenue Growth 2021-2026 (\$ millions)

Figure 99. South Africa Peripheral Nerve Repair Scaffold Revenue Growth 2021-2026 (\$ millions)

Figure 100. Israel Peripheral Nerve Repair Scaffold Revenue Growth 2021-2026 (\$ millions)

Figure 101. Turkey Peripheral Nerve Repair Scaffold Revenue Growth 2021-2026 (\$ millions)

Figure 102. GCC Countries Peripheral Nerve Repair Scaffold Revenue Growth 2021-2026 (\$ millions)

Figure 103. Manufacturing Cost Structure Analysis of Peripheral Nerve Repair Scaffold in 2026

Figure 104. Manufacturing Process Analysis of Peripheral Nerve Repair Scaffold

Figure 105. Industry Chain Structure of Peripheral Nerve Repair Scaffold

Figure 106. Channels of Distribution

Figure 107. Global Peripheral Nerve Repair Scaffold Sales Market Forecast by Region (2027-2032)

Figure 108. Global Peripheral Nerve Repair Scaffold Revenue Market Share Forecast by Region (2027-2032)

Figure 109. Global Peripheral Nerve Repair Scaffold Sales Market Share Forecast by Type (2027-2032)

Figure 110. Global Peripheral Nerve Repair Scaffold Revenue Market Share Forecast by Type (2027-2032)

Figure 111. Global Peripheral Nerve Repair Scaffold Sales Market Share Forecast by Application (2027-2032)

Figure 112. Global Peripheral Nerve Repair Scaffold Revenue Market Share Forecast by Application (2027-2032)

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