

Global Peripheral Nerve Repair Scaffold Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Peripheral Nerve Repair Scaffold market size was valued at US\$ 297 million in 2025 and is forecast to a readjusted size of US\$ 545 million by 2032 with a CAGR of 9.2% during review period.

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

This report is a detailed and comprehensive analysis for global Peripheral Nerve Repair Scaffold market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Peripheral Nerve Repair Scaffold market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Peripheral Nerve Repair Scaffold market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Peripheral Nerve Repair Scaffold market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Peripheral Nerve Repair Scaffold market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Peripheral Nerve Repair Scaffold

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Peripheral Nerve Repair Scaffold market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Axogen, Integra LifeSciences, Stryker, Regenity Biosciences, Polyganics, Toyobo, Synovis Micro Companies Alliance, Arthrex, Checkpoint Surgical, Jiangsu Yitong Biotech, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Peripheral Nerve Repair Scaffold market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Nerve Conduit

Nerve Wrap

Nerve Connector

Nerve Cap

Acellular Nerve Scaffold

Market segment by Material System

Collagen-based Scaffold

Chitosan-based Scaffold

Synthetic Polymer Scaffold

Porcine ECM Scaffold

Acellular Allograft Scaffold

Market segment 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

Market segment by Scaffold Structure

Hollow Tube

Porous Inner Matrix

Fiber-filled Conduit

Sheet or Wrap Matrix

Processed Nerve Matrix

Market segment by Application

Primary Nerve Coaptation

Peripheral Nerve Gap Bridging

Nerve Wrapping and Protection

Neuroma Management

Reconstructive Microsurgery

Other Peripheral Nerve Repair

Major players covered

Axogen

Integra LifeSciences

Stryker

Regenity Biosciences

Polyganics

Toyobo

Synovis Micro Companies Alliance

Arthrex

Checkpoint Surgical

Jiangsu Yitong Biotech

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Peripheral Nerve Repair Scaffold product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Peripheral Nerve Repair Scaffold, with price, sales quantity, revenue, and global market share of Peripheral Nerve Repair Scaffold from 2021 to 2026.

Chapter 3, the Peripheral Nerve Repair Scaffold competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Peripheral Nerve Repair Scaffold breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Peripheral Nerve Repair Scaffold market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Peripheral Nerve Repair Scaffold.

Chapter 14 and 15, to describe Peripheral Nerve Repair Scaffold sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Peripheral Nerve Repair Scaffold Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Nerve Conduit

1.3.3 Nerve Wrap

1.3.4 Nerve Connector

1.3.5 Nerve Cap

1.3.6 Acellular Nerve Scaffold

1.4 Market Analysis by Material System

1.4.1 Overview: Global Peripheral Nerve Repair Scaffold Consumption Value by Material System: 2021 Versus 2025 Versus 2032

1.4.2 Collagen-based Scaffold

1.4.3 Chitosan-based Scaffold

1.4.4 Synthetic Polymer Scaffold

1.4.5 Porcine ECM Scaffold

1.4.6 Acellular Allograft Scaffold

1.5 Market Analysis by Supported Gap Length

1.5.1 Overview: Global Peripheral Nerve Repair Scaffold Consumption Value by Supported Gap Length: 2021 Versus 2025 Versus 2032

1.5.2 No Gap or Coaptation Support

1.5.3 Short Gap ?10 mm

1.5.4 Medium Gap 10?30 mm

1.5.5 Long Gap >30 mm

1.5.6 Other Gap Conditions

1.6 Market Analysis by Scaffold Structure

1.6.1 Overview: Global Peripheral Nerve Repair Scaffold Consumption Value by Scaffold Structure: 2021 Versus 2025 Versus 2032

1.6.2 Hollow Tube

1.6.3 Porous Inner Matrix

1.6.4 Fiber-filled Conduit

1.6.5 Sheet or Wrap Matrix

1.6.6 Processed Nerve Matrix

1.7 Market Analysis by Application

1.7.1 Overview: Global Peripheral Nerve Repair Scaffold Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.7.2 Primary Nerve Coaptation

1.7.3 Peripheral Nerve Gap Bridging

1.7.4 Nerve Wrapping and Protection

1.7.5 Neuroma Management

1.7.6 Reconstructive Microsurgery

1.7.7 Other Peripheral Nerve Repair

1.8 Global Peripheral Nerve Repair Scaffold Market Size & Forecast

1.8.1 Global Peripheral Nerve Repair Scaffold Consumption Value (2021 & 2025 & 2032)

1.8.2 Global Peripheral Nerve Repair Scaffold Sales Quantity (2021-2032)

1.8.3 Global Peripheral Nerve Repair Scaffold Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Axogen

2.1.1 Axogen Details

2.1.2 Axogen Major Business

2.1.3 Axogen Peripheral Nerve Repair Scaffold Product and Services

2.1.4 Axogen Peripheral Nerve Repair Scaffold Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Axogen Recent Developments/Updates

2.2 Integra LifeSciences

2.2.1 Integra LifeSciences Details

2.2.2 Integra LifeSciences Major Business

2.2.3 Integra LifeSciences Peripheral Nerve Repair Scaffold Product and Services

2.2.4 Integra LifeSciences Peripheral Nerve Repair Scaffold Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Integra LifeSciences Recent Developments/Updates

2.3 Stryker

2.3.1 Stryker Details

2.3.2 Stryker Major Business

2.3.3 Stryker Peripheral Nerve Repair Scaffold Product and Services

2.3.4 Stryker Peripheral Nerve Repair Scaffold Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Stryker Recent Developments/Updates

2.4 Regenity Biosciences

2.4.1 Regenity Biosciences Details

- 2.4.2 Regenity Biosciences Major Business
- 2.4.3 Regenity Biosciences Peripheral Nerve Repair Scaffold Product and Services
- 2.4.4 Regenity Biosciences Peripheral Nerve Repair Scaffold Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.4.5 Regenity Biosciences Recent Developments/Updates
- 2.5 Polyganics
 - 2.5.1 Polyganics Details
 - 2.5.2 Polyganics Major Business
 - 2.5.3 Polyganics Peripheral Nerve Repair Scaffold Product and Services
 - 2.5.4 Polyganics Peripheral Nerve Repair Scaffold Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 Polyganics Recent Developments/Updates
- 2.6 Toyobo
 - 2.6.1 Toyobo Details
 - 2.6.2 Toyobo Major Business
 - 2.6.3 Toyobo Peripheral Nerve Repair Scaffold Product and Services
 - 2.6.4 Toyobo Peripheral Nerve Repair Scaffold Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 Toyobo Recent Developments/Updates
- 2.7 Synovis Micro Companies Alliance
 - 2.7.1 Synovis Micro Companies Alliance Details
 - 2.7.2 Synovis Micro Companies Alliance Major Business
 - 2.7.3 Synovis Micro Companies Alliance Peripheral Nerve Repair Scaffold Product and Services
 - 2.7.4 Synovis Micro Companies Alliance Peripheral Nerve Repair Scaffold Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Synovis Micro Companies Alliance Recent Developments/Updates
- 2.8 Arthrex
 - 2.8.1 Arthrex Details
 - 2.8.2 Arthrex Major Business
 - 2.8.3 Arthrex Peripheral Nerve Repair Scaffold Product and Services
 - 2.8.4 Arthrex Peripheral Nerve Repair Scaffold Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Arthrex Recent Developments/Updates
- 2.9 Checkpoint Surgical
 - 2.9.1 Checkpoint Surgical Details
 - 2.9.2 Checkpoint Surgical Major Business
 - 2.9.3 Checkpoint Surgical Peripheral Nerve Repair Scaffold Product and Services
 - 2.9.4 Checkpoint Surgical Peripheral Nerve Repair Scaffold Sales Quantity, Average

Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Checkpoint Surgical Recent Developments/Updates

2.10 Jiangsu Yitong Biotech

2.10.1 Jiangsu Yitong Biotech Details

2.10.2 Jiangsu Yitong Biotech Major Business

2.10.3 Jiangsu Yitong Biotech Peripheral Nerve Repair Scaffold Product and Services

2.10.4 Jiangsu Yitong Biotech Peripheral Nerve Repair Scaffold Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Jiangsu Yitong Biotech Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: PERIPHERAL NERVE REPAIR SCAFFOLD BY MANUFACTURER

3.1 Global Peripheral Nerve Repair Scaffold Sales Quantity by Manufacturer (2021-2026)

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

3.3 Global Peripheral Nerve Repair Scaffold Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Peripheral Nerve Repair Scaffold by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Peripheral Nerve Repair Scaffold Manufacturer Market Share in 2025

3.4.3 Top 6 Peripheral Nerve Repair Scaffold Manufacturer Market Share in 2025

3.5 Peripheral Nerve Repair Scaffold Market: Overall Company Footprint Analysis

3.5.1 Peripheral Nerve Repair Scaffold Market: Region Footprint

3.5.2 Peripheral Nerve Repair Scaffold Market: Company Product Type Footprint

3.5.3 Peripheral Nerve Repair Scaffold Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Peripheral Nerve Repair Scaffold Market Size by Region

4.1.1 Global Peripheral Nerve Repair Scaffold Sales Quantity by Region (2021-2032)

4.1.2 Global Peripheral Nerve Repair Scaffold Consumption Value by Region (2021-2032)

4.1.3 Global Peripheral Nerve Repair Scaffold Average Price by Region (2021-2032)

4.2 North America Peripheral Nerve Repair Scaffold Consumption Value (2021-2032)

4.3 Europe Peripheral Nerve Repair Scaffold Consumption Value (2021-2032)

- 4.4 Asia-Pacific Peripheral Nerve Repair Scaffold Consumption Value (2021-2032)
- 4.5 South America Peripheral Nerve Repair Scaffold Consumption Value (2021-2032)
- 4.6 Middle East & Africa Peripheral Nerve Repair Scaffold Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Peripheral Nerve Repair Scaffold Sales Quantity by Type (2021-2032)
- 5.2 Global Peripheral Nerve Repair Scaffold Consumption Value by Type (2021-2032)
- 5.3 Global Peripheral Nerve Repair Scaffold Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Peripheral Nerve Repair Scaffold Sales Quantity by Application (2021-2032)
- 6.2 Global Peripheral Nerve Repair Scaffold Consumption Value by Application (2021-2032)
- 6.3 Global Peripheral Nerve Repair Scaffold Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America Peripheral Nerve Repair Scaffold Sales Quantity by Type (2021-2032)
- 7.2 North America Peripheral Nerve Repair Scaffold Sales Quantity by Application (2021-2032)
- 7.3 North America Peripheral Nerve Repair Scaffold Market Size by Country
 - 7.3.1 North America Peripheral Nerve Repair Scaffold Sales Quantity by Country (2021-2032)
 - 7.3.2 North America Peripheral Nerve Repair Scaffold Consumption Value by Country (2021-2032)
 - 7.3.3 United States Market Size and Forecast (2021-2032)
 - 7.3.4 Canada Market Size and Forecast (2021-2032)
 - 7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

- 8.1 Europe Peripheral Nerve Repair Scaffold Sales Quantity by Type (2021-2032)
- 8.2 Europe Peripheral Nerve Repair Scaffold Sales Quantity by Application (2021-2032)
- 8.3 Europe Peripheral Nerve Repair Scaffold Market Size by Country
 - 8.3.1 Europe Peripheral Nerve Repair Scaffold Sales Quantity by Country (2021-2032)

8.3.2 Europe Peripheral Nerve Repair Scaffold Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Peripheral Nerve Repair Scaffold Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Peripheral Nerve Repair Scaffold Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Peripheral Nerve Repair Scaffold Market Size by Region

9.3.1 Asia-Pacific Peripheral Nerve Repair Scaffold Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Peripheral Nerve Repair Scaffold Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Peripheral Nerve Repair Scaffold Sales Quantity by Type (2021-2032)

10.2 South America Peripheral Nerve Repair Scaffold Sales Quantity by Application (2021-2032)

10.3 South America Peripheral Nerve Repair Scaffold Market Size by Country

10.3.1 South America Peripheral Nerve Repair Scaffold Sales Quantity by Country (2021-2032)

10.3.2 South America Peripheral Nerve Repair Scaffold Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Peripheral Nerve Repair Scaffold Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Peripheral Nerve Repair Scaffold Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Peripheral Nerve Repair Scaffold Market Size by Country

11.3.1 Middle East & Africa Peripheral Nerve Repair Scaffold Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Peripheral Nerve Repair Scaffold Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Peripheral Nerve Repair Scaffold Market Drivers

12.2 Peripheral Nerve Repair Scaffold Market Restraints

12.3 Peripheral Nerve Repair Scaffold Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Peripheral Nerve Repair Scaffold and Key Manufacturers

13.2 Manufacturing Costs Percentage of Peripheral Nerve Repair Scaffold

13.3 Peripheral Nerve Repair Scaffold Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Peripheral Nerve Repair Scaffold Typical Distributors

14.3 Peripheral Nerve Repair Scaffold Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Peripheral Nerve Repair Scaffold Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Peripheral Nerve Repair Scaffold Consumption Value by Material System, (USD Million), 2021 & 2025 & 2032

Table 3. Global Peripheral Nerve Repair Scaffold Consumption Value by Supported Gap Length, (USD Million), 2021 & 2025 & 2032

Table 4. Global Peripheral Nerve Repair Scaffold Consumption Value by Scaffold Structure, (USD Million), 2021 & 2025 & 2032

Table 5. Global Peripheral Nerve Repair Scaffold Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 6. Axogen Basic Information, Manufacturing Base and Competitors

Table 7. Axogen Major Business

Table 8. Axogen Peripheral Nerve Repair Scaffold Product and Services

Table 9. Axogen Peripheral Nerve Repair Scaffold Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 10. Axogen Recent Developments/Updates

Table 11. Integra LifeSciences Basic Information, Manufacturing Base and Competitors

Table 12. Integra LifeSciences Major Business

Table 13. Integra LifeSciences Peripheral Nerve Repair Scaffold Product and Services

Table 14. Integra LifeSciences Peripheral Nerve Repair Scaffold Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 15. Integra LifeSciences Recent Developments/Updates

Table 16. Stryker Basic Information, Manufacturing Base and Competitors

Table 17. Stryker Major Business

Table 18. Stryker Peripheral Nerve Repair Scaffold Product and Services

Table 19. Stryker Peripheral Nerve Repair Scaffold Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 20. Stryker Recent Developments/Updates

Table 21. Regenity Biosciences Basic Information, Manufacturing Base and Competitors

Table 22. Regenity Biosciences Major Business

Table 23. Regenity Biosciences Peripheral Nerve Repair Scaffold Product and Services

Table 24. Regenity Biosciences Peripheral Nerve Repair Scaffold Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market

Share (2021-2026)

Table 25. Regenity Biosciences Recent Developments/Updates

Table 26. Polyganics Basic Information, Manufacturing Base and Competitors

Table 27. Polyganics Major Business

Table 28. Polyganics Peripheral Nerve Repair Scaffold Product and Services

Table 29. Polyganics Peripheral Nerve Repair Scaffold Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 30. Polyganics Recent Developments/Updates

Table 31. Toyobo Basic Information, Manufacturing Base and Competitors

Table 32. Toyobo Major Business

Table 33. Toyobo Peripheral Nerve Repair Scaffold Product and Services

Table 34. Toyobo Peripheral Nerve Repair Scaffold Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 35. Toyobo Recent Developments/Updates

Table 36. Synovis Micro Companies Alliance Basic Information, Manufacturing Base and Competitors

Table 37. Synovis Micro Companies Alliance Major Business

Table 38. Synovis Micro Companies Alliance Peripheral Nerve Repair Scaffold Product and Services

Table 39. Synovis Micro Companies Alliance Peripheral Nerve Repair Scaffold Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 40. Synovis Micro Companies Alliance Recent Developments/Updates

Table 41. Arthrex Basic Information, Manufacturing Base and Competitors

Table 42. Arthrex Major Business

Table 43. Arthrex Peripheral Nerve Repair Scaffold Product and Services

Table 44. Arthrex Peripheral Nerve Repair Scaffold Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 45. Arthrex Recent Developments/Updates

Table 46. Checkpoint Surgical Basic Information, Manufacturing Base and Competitors

Table 47. Checkpoint Surgical Major Business

Table 48. Checkpoint Surgical Peripheral Nerve Repair Scaffold Product and Services

Table 49. Checkpoint Surgical Peripheral Nerve Repair Scaffold Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 50. Checkpoint Surgical Recent Developments/Updates

Table 51. Jiangsu Yitong Biotech Basic Information, Manufacturing Base and Competitors

Table 52. Jiangsu Yitong Biotech Major Business

Table 53. Jiangsu Yitong Biotech Peripheral Nerve Repair Scaffold Product and Services

Table 54. Jiangsu Yitong Biotech Peripheral Nerve Repair Scaffold Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 55. Jiangsu Yitong Biotech Recent Developments/Updates

Table 56. Global Peripheral Nerve Repair Scaffold Sales Quantity by Manufacturer (2021-2026) & (Units)

Table 57. Global Peripheral Nerve Repair Scaffold Revenue by Manufacturer (2021-2026) & (USD Million)

Table 58. Global Peripheral Nerve Repair Scaffold Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 59. Market Position of Manufacturers in Peripheral Nerve Repair Scaffold, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 60. Head Office and Peripheral Nerve Repair Scaffold Production Site of Key Manufacturer

Table 61. Peripheral Nerve Repair Scaffold Market: Company Product Type Footprint

Table 62. Peripheral Nerve Repair Scaffold Market: Company Product Application Footprint

Table 63. Peripheral Nerve Repair Scaffold New Market Entrants and Barriers to Market Entry

Table 64. Peripheral Nerve Repair Scaffold Mergers, Acquisition, Agreements, and Collaborations

Table 65. Global Peripheral Nerve Repair Scaffold Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 66. Global Peripheral Nerve Repair Scaffold Sales Quantity by Region (2021-2026) & (Units)

Table 67. Global Peripheral Nerve Repair Scaffold Sales Quantity by Region (2027-2032) & (Units)

Table 68. Global Peripheral Nerve Repair Scaffold Consumption Value by Region (2021-2026) & (USD Million)

Table 69. Global Peripheral Nerve Repair Scaffold Consumption Value by Region (2027-2032) & (USD Million)

Table 70. Global Peripheral Nerve Repair Scaffold Average Price by Region (2021-2026) & (US\$/Unit)

Table 71. Global Peripheral Nerve Repair Scaffold Average Price by Region (2027-2032) & (US\$/Unit)

Table 72. Global Peripheral Nerve Repair Scaffold Sales Quantity by Type (2021-2026) & (Units)

Table 73. Global Peripheral Nerve Repair Scaffold Sales Quantity by Type (2027-2032) & (Units)

Table 74. Global Peripheral Nerve Repair Scaffold Consumption Value by Type (2021-2026) & (USD Million)

Table 75. Global Peripheral Nerve Repair Scaffold Consumption Value by Type (2027-2032) & (USD Million)

Table 76. Global Peripheral Nerve Repair Scaffold Average Price by Type (2021-2026) & (US\$/Unit)

Table 77. Global Peripheral Nerve Repair Scaffold Average Price by Type (2027-2032) & (US\$/Unit)

Table 78. Global Peripheral Nerve Repair Scaffold Sales Quantity by Application (2021-2026) & (Units)

Table 79. Global Peripheral Nerve Repair Scaffold Sales Quantity by Application (2027-2032) & (Units)

Table 80. Global Peripheral Nerve Repair Scaffold Consumption Value by Application (2021-2026) & (USD Million)

Table 81. Global Peripheral Nerve Repair Scaffold Consumption Value by Application (2027-2032) & (USD Million)

Table 82. Global Peripheral Nerve Repair Scaffold Average Price by Application (2021-2026) & (US\$/Unit)

Table 83. Global Peripheral Nerve Repair Scaffold Average Price by Application (2027-2032) & (US\$/Unit)

Table 84. North America Peripheral Nerve Repair Scaffold Sales Quantity by Type (2021-2026) & (Units)

Table 85. North America Peripheral Nerve Repair Scaffold Sales Quantity by Type (2027-2032) & (Units)

Table 86. North America Peripheral Nerve Repair Scaffold Sales Quantity by Application (2021-2026) & (Units)

Table 87. North America Peripheral Nerve Repair Scaffold Sales Quantity by Application (2027-2032) & (Units)

Table 88. North America Peripheral Nerve Repair Scaffold Sales Quantity by Country (2021-2026) & (Units)

Table 89. North America Peripheral Nerve Repair Scaffold Sales Quantity by Country (2027-2032) & (Units)

Table 90. North America Peripheral Nerve Repair Scaffold Consumption Value by Country (2021-2026) & (USD Million)

Table 91. North America Peripheral Nerve Repair Scaffold Consumption Value by Country (2027-2032) & (USD Million)

Table 92. Europe Peripheral Nerve Repair Scaffold Sales Quantity by Type (2021-2026)

& (Units)

Table 93. Europe Peripheral Nerve Repair Scaffold Sales Quantity by Type (2027-2032)

& (Units)

Table 94. Europe Peripheral Nerve Repair Scaffold Sales Quantity by Application (2021-2026) & (Units)

Table 95. Europe Peripheral Nerve Repair Scaffold Sales Quantity by Application (2027-2032) & (Units)

Table 96. Europe Peripheral Nerve Repair Scaffold Sales Quantity by Country (2021-2026) & (Units)

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

Table 98. Europe Peripheral Nerve Repair Scaffold Consumption Value by Country (2021-2026) & (USD Million)

Table 99. Europe Peripheral Nerve Repair Scaffold Consumption Value by Country (2027-2032) & (USD Million)

Table 100. Asia-Pacific Peripheral Nerve Repair Scaffold Sales Quantity by Type (2021-2026) & (Units)

Table 101. Asia-Pacific Peripheral Nerve Repair Scaffold Sales Quantity by Type (2027-2032) & (Units)

Table 102. Asia-Pacific Peripheral Nerve Repair Scaffold Sales Quantity by Application (2021-2026) & (Units)

Table 103. Asia-Pacific Peripheral Nerve Repair Scaffold Sales Quantity by Application (2027-2032) & (Units)

Table 104. Asia-Pacific Peripheral Nerve Repair Scaffold Sales Quantity by Region (2021-2026) & (Units)

Table 105. Asia-Pacific Peripheral Nerve Repair Scaffold Sales Quantity by Region (2027-2032) & (Units)

Table 106. Asia-Pacific Peripheral Nerve Repair Scaffold Consumption Value by Region (2021-2026) & (USD Million)

Table 107. Asia-Pacific Peripheral Nerve Repair Scaffold Consumption Value by Region (2027-2032) & (USD Million)

Table 108. South America Peripheral Nerve Repair Scaffold Sales Quantity by Type (2021-2026) & (Units)

Table 109. South America Peripheral Nerve Repair Scaffold Sales Quantity by Type (2027-2032) & (Units)

Table 110. South America Peripheral Nerve Repair Scaffold Sales Quantity by Application (2021-2026) & (Units)

Table 111. South America Peripheral Nerve Repair Scaffold Sales Quantity by Application (2027-2032) & (Units)

Table 112. South America Peripheral Nerve Repair Scaffold Sales Quantity by Country (2021-2026) & (Units)

Table 113. South America Peripheral Nerve Repair Scaffold Sales Quantity by Country (2027-2032) & (Units)

Table 114. South America Peripheral Nerve Repair Scaffold Consumption Value by Country (2021-2026) & (USD Million)

Table 115. South America Peripheral Nerve Repair Scaffold Consumption Value by Country (2027-2032) & (USD Million)

Table 116. Middle East & Africa Peripheral Nerve Repair Scaffold Sales Quantity by Type (2021-2026) & (Units)

Table 117. Middle East & Africa Peripheral Nerve Repair Scaffold Sales Quantity by Type (2027-2032) & (Units)

Table 118. Middle East & Africa Peripheral Nerve Repair Scaffold Sales Quantity by Application (2021-2026) & (Units)

Table 119. Middle East & Africa Peripheral Nerve Repair Scaffold Sales Quantity by Application (2027-2032) & (Units)

Table 120. Middle East & Africa Peripheral Nerve Repair Scaffold Sales Quantity by Country (2021-2026) & (Units)

Table 121. Middle East & Africa Peripheral Nerve Repair Scaffold Sales Quantity by Country (2027-2032) & (Units)

Table 122. Middle East & Africa Peripheral Nerve Repair Scaffold Consumption Value by Country (2021-2026) & (USD Million)

Table 123. Middle East & Africa Peripheral Nerve Repair Scaffold Consumption Value by Country (2027-2032) & (USD Million)

Table 124. Peripheral Nerve Repair Scaffold Raw Material

Table 125. Key Manufacturers of Peripheral Nerve Repair Scaffold Raw Materials

Table 126. Peripheral Nerve Repair Scaffold Typical Distributors

Table 127. Peripheral Nerve Repair Scaffold Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Peripheral Nerve Repair Scaffold Picture

Figure 2. Global Peripheral Nerve Repair Scaffold Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Peripheral Nerve Repair Scaffold Revenue Market Share by Type in 2025

Figure 4. Nerve Conduit Examples

Figure 5. Nerve Wrap Examples

Figure 6. Nerve Connector Examples

Figure 7. Nerve Cap Examples

Figure 8. Acellular Nerve Scaffold Examples

Figure 9. Global Peripheral Nerve Repair Scaffold Revenue by Material System, (USD Million), 2021 & 2025 & 2032

Figure 10. Global Peripheral Nerve Repair Scaffold Revenue Market Share by Material System in 2025

Figure 11. Collagen-based Scaffold Examples

Figure 12. Chitosan-based Scaffold Examples

Figure 13. Synthetic Polymer Scaffold Examples

Figure 14. Porcine ECM Scaffold Examples

Figure 15. Acellular Allograft Scaffold Examples

Figure 16. Global Peripheral Nerve Repair Scaffold Revenue by Supported Gap Length, (USD Million), 2021 & 2025 & 2032

Figure 17. Global Peripheral Nerve Repair Scaffold Revenue Market Share by Supported Gap Length in 2025

Figure 18. No Gap or Coaptation Support Examples

Figure 19. Short Gap ?10 mm Examples

Figure 20. Medium Gap 10?30 mm Examples

Figure 21. Long Gap >30 mm Examples

Figure 22. Other Gap Conditions Examples

Figure 23. Global Peripheral Nerve Repair Scaffold Revenue by Scaffold Structure, (USD Million), 2021 & 2025 & 2032

Figure 24. Global Peripheral Nerve Repair Scaffold Revenue Market Share by Scaffold Structure in 2025

Figure 25. Hollow Tube Examples

Figure 26. Porous Inner Matrix Examples

Figure 27. Fiber-filled Conduit Examples

Figure 28. Sheet or Wrap Matrix Examples

Figure 29. Processed Nerve Matrix Examples

Figure 30. Global Peripheral Nerve Repair Scaffold Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 31. Global Peripheral Nerve Repair Scaffold Revenue Market Share by Application in 2025

Figure 32. Primary Nerve Coaptation Examples

Figure 33. Peripheral Nerve Gap Bridging Examples

Figure 34. Nerve Wrapping and Protection Examples

Figure 35. Neuroma Management Examples

Figure 36. Reconstructive Microsurgery Examples

Figure 37. Other Peripheral Nerve Repair Examples

Figure 38. Global Peripheral Nerve Repair Scaffold Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 39. Global Peripheral Nerve Repair Scaffold Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 40. Global Peripheral Nerve Repair Scaffold Sales Quantity (2021-2032) & (Units)

Figure 41. Global Peripheral Nerve Repair Scaffold Price (2021-2032) & (US\$/Unit)

Figure 42. Global Peripheral Nerve Repair Scaffold Sales Quantity Market Share by Manufacturer in 2025

Figure 43. Global Peripheral Nerve Repair Scaffold Revenue Market Share by Manufacturer in 2025

Figure 44. Producer Shipments of Peripheral Nerve Repair Scaffold by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 45. Top 3 Peripheral Nerve Repair Scaffold Manufacturer (Revenue) Market Share in 2025

Figure 46. Top 6 Peripheral Nerve Repair Scaffold Manufacturer (Revenue) Market Share in 2025

Figure 47. Global Peripheral Nerve Repair Scaffold Sales Quantity Market Share by Region (2021-2032)

Figure 48. Global Peripheral Nerve Repair Scaffold Consumption Value Market Share by Region (2021-2032)

Figure 49. North America Peripheral Nerve Repair Scaffold Consumption Value (2021-2032) & (USD Million)

Figure 50. Europe Peripheral Nerve Repair Scaffold Consumption Value (2021-2032) & (USD Million)

Figure 51. Asia-Pacific Peripheral Nerve Repair Scaffold Consumption Value (2021-2032) & (USD Million)

Figure 52. South America Peripheral Nerve Repair Scaffold Consumption Value (2021-2032) & (USD Million)

Figure 53. Middle East & Africa Peripheral Nerve Repair Scaffold Consumption Value (2021-2032) & (USD Million)

Figure 54. Global Peripheral Nerve Repair Scaffold Sales Quantity Market Share by Type (2021-2032)

Figure 55. Global Peripheral Nerve Repair Scaffold Consumption Value Market Share by Type (2021-2032)

Figure 56. Global Peripheral Nerve Repair Scaffold Average Price by Type (2021-2032) & (US\$/Unit)

Figure 57. Global Peripheral Nerve Repair Scaffold Sales Quantity Market Share by Application (2021-2032)

Figure 58. Global Peripheral Nerve Repair Scaffold Revenue Market Share by Application (2021-2032)

Figure 59. Global Peripheral Nerve Repair Scaffold Average Price by Application (2021-2032) & (US\$/Unit)

Figure 60. North America Peripheral Nerve Repair Scaffold Sales Quantity Market Share by Type (2021-2032)

Figure 61. North America Peripheral Nerve Repair Scaffold Sales Quantity Market Share by Application (2021-2032)

Figure 62. North America Peripheral Nerve Repair Scaffold Sales Quantity Market Share by Country (2021-2032)

Figure 63. North America Peripheral Nerve Repair Scaffold Consumption Value Market Share by Country (2021-2032)

Figure 64. United States Peripheral Nerve Repair Scaffold Consumption Value (2021-2032) & (USD Million)

Figure 65. Canada Peripheral Nerve Repair Scaffold Consumption Value (2021-2032) & (USD Million)

Figure 66. Mexico Peripheral Nerve Repair Scaffold Consumption Value (2021-2032) & (USD Million)

Figure 67. Europe Peripheral Nerve Repair Scaffold Sales Quantity Market Share by Type (2021-2032)

Figure 68. Europe Peripheral Nerve Repair Scaffold Sales Quantity Market Share by Application (2021-2032)

Figure 69. Europe Peripheral Nerve Repair Scaffold Sales Quantity Market Share by Country (2021-2032)

Figure 70. Europe Peripheral Nerve Repair Scaffold Consumption Value Market Share by Country (2021-2032)

Figure 71. Germany Peripheral Nerve Repair Scaffold Consumption Value (2021-2032)

& (USD Million)

Figure 72. France Peripheral Nerve Repair Scaffold Consumption Value (2021-2032) & (USD Million)

Figure 73. United Kingdom Peripheral Nerve Repair Scaffold Consumption Value (2021-2032) & (USD Million)

Figure 74. Russia Peripheral Nerve Repair Scaffold Consumption Value (2021-2032) & (USD Million)

Figure 75. Italy Peripheral Nerve Repair Scaffold Consumption Value (2021-2032) & (USD Million)

Figure 76. Asia-Pacific Peripheral Nerve Repair Scaffold Sales Quantity Market Share by Type (2021-2032)

Figure 77. Asia-Pacific Peripheral Nerve Repair Scaffold Sales Quantity Market Share by Application (2021-2032)

Figure 78. Asia-Pacific Peripheral Nerve Repair Scaffold Sales Quantity Market Share by Region (2021-2032)

Figure 79. Asia-Pacific Peripheral Nerve Repair Scaffold Consumption Value Market Share by Region (2021-2032)

Figure 80. China Peripheral Nerve Repair Scaffold Consumption Value (2021-2032) & (USD Million)

Figure 81. Japan Peripheral Nerve Repair Scaffold Consumption Value (2021-2032) & (USD Million)

Figure 82. South Korea Peripheral Nerve Repair Scaffold Consumption Value (2021-2032) & (USD Million)

Figure 83. India Peripheral Nerve Repair Scaffold Consumption Value (2021-2032) & (USD Million)

Figure 84. Southeast Asia Peripheral Nerve Repair Scaffold Consumption Value (2021-2032) & (USD Million)

Figure 85. Australia Peripheral Nerve Repair Scaffold Consumption Value (2021-2032) & (USD Million)

Figure 86. South America Peripheral Nerve Repair Scaffold Sales Quantity Market Share by Type (2021-2032)

Figure 87. South America Peripheral Nerve Repair Scaffold Sales Quantity Market Share by Application (2021-2032)

Figure 88. South America Peripheral Nerve Repair Scaffold Sales Quantity Market Share by Country (2021-2032)

Figure 89. South America Peripheral Nerve Repair Scaffold Consumption Value Market Share by Country (2021-2032)

Figure 90. Brazil Peripheral Nerve Repair Scaffold Consumption Value (2021-2032) & (USD Million)

- Figure 91. Argentina Peripheral Nerve Repair Scaffold Consumption Value (2021-2032) & (USD Million)
- Figure 92. Middle East & Africa Peripheral Nerve Repair Scaffold Sales Quantity Market Share by Type (2021-2032)
- Figure 93. Middle East & Africa Peripheral Nerve Repair Scaffold Sales Quantity Market Share by Application (2021-2032)
- Figure 94. Middle East & Africa Peripheral Nerve Repair Scaffold Sales Quantity Market Share by Country (2021-2032)
- Figure 95. Middle East & Africa Peripheral Nerve Repair Scaffold Consumption Value Market Share by Country (2021-2032)
- Figure 96. Turkey Peripheral Nerve Repair Scaffold Consumption Value (2021-2032) & (USD Million)
- Figure 97. Egypt Peripheral Nerve Repair Scaffold Consumption Value (2021-2032) & (USD Million)
- Figure 98. Saudi Arabia Peripheral Nerve Repair Scaffold Consumption Value (2021-2032) & (USD Million)
- Figure 99. South Africa Peripheral Nerve Repair Scaffold Consumption Value (2021-2032) & (USD Million)
- Figure 100. Peripheral Nerve Repair Scaffold Market Drivers
- Figure 101. Peripheral Nerve Repair Scaffold Market Restraints
- Figure 102. Peripheral Nerve Repair Scaffold Market Trends
- Figure 103. Porters Five Forces Analysis
- Figure 104. Manufacturing Cost Structure Analysis of Peripheral Nerve Repair Scaffold in 2025
- Figure 105. Manufacturing Process Analysis of Peripheral Nerve Repair Scaffold
- Figure 106. Peripheral Nerve Repair Scaffold Industrial Chain
- Figure 107. Sales Channel: Direct to End-User vs Distributors
- Figure 108. Direct Channel Pros & Cons
- Figure 109. Indirect Channel Pros & Cons
- Figure 110. Methodology
- Figure 111. Research Process and Data Source

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