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Global Surgical Cell Delivery Cannula Market Growth 2026-2032

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Abstracts

The global Surgical Cell Delivery Cannula market size is predicted to grow from US$ 62.61 million in 2025 to US$ 212 million in 2032; it is expected to grow at a CAGR of 19.1% from 2026 to 2032.

Surgical cell delivery cannulas are specialized cannulas, needles, or delivery catheters used under open surgery, minimally invasive intervention, or image-guided procedures to place stem cells, iPSC-derived cells, immune cells, cell spheroids, or related biologics into target sites such as the brain, subretinal space, myocardium, spinal cord, and local soft tissue. Key requirements include small bore design, low dead volume, controlled flow, low shear stress, sterile single-use supply, and compatibility with syringes, pumps, microinjection systems, and navigation platforms, with an estimated gross margin of about 55%.

Demand is mainly driven by cell therapy pipelines for neurodegenerative diseases, inherited retinal disorders, heart failure repair, spinal cord injury, and musculoskeletal or soft tissue repair. As living cell therapies move from systemic infusion to precise local implantation, the delivery step has a greater impact on cell viability, dose retention, target coverage, and surgical safety, pushing cannulas from standard injection tools toward low-shear, low-dead-volume, visible, and flow-controlled designs.

The supply base combines ophthalmic microsurgery consumable manufacturers, neurosurgical navigation and delivery platform providers, and cardiovascular intervention catheter companies. Leading suppliers increasingly sell cannulas, catheters, microinjection kits, pump control modules, and navigation software as integrated solutions. Procurement decisions focus on gauge or diameter, tip design, dead volume, material compatibility, sterilization, regulatory documentation, and

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compatibility with existing surgical systems.

Market opportunities are concentrated in cell and gene therapy indications that have entered clinical or commercial stages, especially in CNS, ophthalmology, and cardiac regenerative medicine. The sector still faces a long surgical learning curve, limited procedure volume per program, lengthy custom validation, and varied regulatory pathways, while suppliers with clinical evidence and platform compatibility are better positioned for high-value collaborations.

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

This Insight Report provides a comprehensive analysis of the global Surgical Cell Delivery Cannula 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 Surgical Cell Delivery Cannula portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Surgical Cell Delivery Cannula market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Surgical Cell Delivery Cannula 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 Surgical Cell Delivery Cannula.

This report presents a comprehensive overview, market shares, and growth opportunities of Surgical Cell Delivery Cannula market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

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Intracerebral Delivery Cannula

Subretinal Delivery Cannula

Intramyocardial Delivery Catheter

Intraspinal Delivery Cannula

Local Tissue Injection Cannula

Other Delivery Cannula

Segmentation by Cannula Structure:

Straight Rigid Cannula

Curved or Angled Cannula

Flexible Tip Cannula

Extendable or Retractable Tip Cannula

Helical Needle Catheter

Multiport or Side-Opening Cannula

Segmentation by Specification Parameters:

38-41 Gauge Microcannula

23-27 Gauge Access Cannula

1-2 mm Stereotactic Cannula

Short Tip Length Cannula

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Low Dead Volume Cannula

Custom Specification Cannula

Segmentation by Imaging and Navigation Compatibility:

Image-Guided Compatible Type

Stereotactic Frame-Compatible Type

Robotic Navigation-Compatible Type

Cardiac Mapping-Compatible Type

Manual Operation Type

Other Compatibility Type

Segmentation by Application:

Retinal Cell Therapy

CNS Cell Therapy

Cardiac Cell Therapy

Spinal Cord Cell Therapy

Musculoskeletal and Soft Tissue Repair

Preclinical Cell Delivery Studies

This report also splits the market by region:

Americas

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United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

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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.

ClearPoint Neuro

BioCardia

MedOne Surgical

DORC

Altaviz

Mizuho

Japan Lifeline

Neurochase

Orbit Biomedical

Bausch + Lomb

Key Questions Addressed in this Report

What is the 10-year outlook for the global Surgical Cell Delivery Cannula market?

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What factors are driving Surgical Cell Delivery Cannula market growth, globally and by region?

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

How do Surgical Cell Delivery Cannula market opportunities vary by end market size?

How does Surgical Cell Delivery Cannula break out by Type, by Application?

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