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Global 23G Backflush Instrument Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 23G Backflush Instrument market size is expected to reach $ 33.79 million by 2032, rising at a market growth of 2.4% CAGR during the forecast period (2026-2032).

The 23G Backflush Instrument is a microsurgical instrument inserted through a 23G scleral cannula into the posterior segment of the eye for controlled aspiration of intraocular fluid, subretinal fluid, blood, or fine debris. It assists in fluid-gas exchange, local drainage, and gentle manipulation of the retinal surface. The instrument typically consists of a metal tube shaft approximately 0.6 mm in diameter, a blunt or flexible silicone tip, a brush head, a reservoir, a handle, an aspiration control port, and a Luer connector. Passive aspiration can be achieved by covering or leaving the port open, or active aspiration can be achieved by connecting to vitrectomy equipment or negative pressure tubing.

Key Findings

23G Backflush Instrument combines approximately 0.6 mm access with controlled aspiration and reflux

Straight and curved configurations address different approach angles and posterior-segment operating requirements

Commercial working lengths extend beyond 15 mm with 22 mm to 33 mm products available

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Flat-end and beveled side-port designs provide differentiated fluid-entry and tissue-contact characteristics

Ophthalmic care generates core demand while education and medical-device integration provide supplementary opportunities

Market Trends

The 23G Backflush Instrument market is moving from basic aspiration cannulas toward integrated instruments offering more precise flow control, improved handling and application-specific distal designs. Suppliers are optimizing reservoir capacity, activation force, handle dimensions, shaft rigidity and aspiration stability under different vacuum conditions. Passive and active aspiration functions are increasingly combined within one instrument or supported through interchangeable reservoirs and tubing, allowing surgeons to adapt fluid management without changing the principal cannula. Product portfolios are also expanding beyond conventional blunt or flat-ended configurations to brush, soft-tip, retractable and extendable designs intended to support atraumatic aspiration, retinal-surface manipulation and drainage from anatomically difficult locations. Longer shafts are receiving greater attention for highly myopic eyes and other cases requiring deeper posterior-segment access. Sterile single-use instruments are favored where operating-room workflow, predictable lumen condition and reduced reprocessing are prioritized, while reusable handles and replacement cannulas remain relevant for institutions seeking procurement flexibility. The longer-term direction is toward broader functional integration without increasing shaft diameter or reducing compatibility with established 23G trocar and surgical-console ecosystems.

Market Dynamics

Drivers

Demand for 23G Backflush Instrument is supported by the established role of 23G access in pars plana vitrectomy and related posterior-segment procedures. Compared with larger-gauge systems, 23G instruments support small-incision surgical workflows while retaining sufficient shaft rigidity and lumen capacity for controlled aspiration of intraocular fluids and debris. Hospitals and ophthalmic surgical centers increasingly seek instruments that reduce setup complexity, provide predictable flow and allow intuitive finger-controlled reflux or aspiration. The continued expansion of retinal

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treatment capacity, ambulatory ophthalmic surgery and standardized vitreoretinal procedure packs creates recurring demand for compatible sterile instruments and replacement cannulas. Installed surgical platforms also influence purchasing because surgeons and operating-room teams generally favor instruments that connect reliably with familiar tubing, reservoirs, valved cannulas and fluidics systems. The availability of 23G within broader 23G-to-27G vitreoretinal portfolios confirms its continuing relevance as a balance between small access, handling stability and procedural versatility.

Restraints

The market is constrained by precision-manufacturing requirements, regulatory costs and healthcare procurement pressure. Small variations in microtube diameter, wall thickness, lumen continuity, port dimensions or distal-edge finishing can affect aspiration performance and tissue interaction. Curved shafts, beveled side ports and longer working lengths require additional forming and inspection control because bending or distal machining may reduce lumen uniformity or alter shaft behavior. Single-use products incur sterile-barrier packaging, sterilization validation and shelf-life management costs, while reusable systems transfer cleaning, maintenance and traceability responsibilities to healthcare providers. Price sensitivity remains significant because the 23G Backflush Instrument is one component within a wider vitreoretinal consumables set, and purchasers evaluate the total procedural cost rather than the instrument in isolation. Regional differences in registration, labeling, sterilization requirements and permitted product configurations can also increase portfolio complexity. These factors raise entry barriers for smaller producers seeking access to premium hospital channels and limit the commercial viability of highly customized products unless sufficient procedure volume or OEM demand is available.

Opportunities

Product differentiation offers the clearest opportunity. Working lengths above 15 mm can address deeper posterior-segment access, elongated ocular anatomy and high-myopia procedures, with commercial portfolios already offering 22 mm, 28 mm, 32 mm and 33 mm configurations. Curved shafts can improve approach angles in selected peripheral or anatomically difficult locations, while beveled side-port designs can redirect fluid entry and provide different tissue-contact behavior from flat-ended products. Additional opportunities arise from retractable brush tips, extendable silicone tips, improved reservoirs, enhanced visibility, lower activation force and instruments capable of both active and passive aspiration. Modular systems using reusable handles

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and disposable cannulas can serve institutions balancing waste, cost and instrument consistency. Medical-device companies also create OEM and private-label opportunities for qualified manufacturers able to provide precision cannulas, sterile assembly and application-specific customization. In emerging ophthalmic markets, local manufacturing and distributor-supported portfolios can reduce lead times and improve access to service, provided that regulatory documentation, sterilization validation and batch consistency meet hospital requirements.

Challenges

A central technical challenge is balancing flow performance with tissue safety. A larger or more exposed aspiration port can improve removal efficiency but may increase localized tissue interaction, while a narrow or poorly controlled lumen can reduce flow and prolong manipulation. Curved and long-shaft 23G instruments must preserve adequate rigidity, rotational control and smooth passage through valved access cannulas. Beveled side-port and flat-end products require consistent edge finishing because small geometric deviations may change aspiration direction or contact behavior near sensitive retinal structures. Product performance is also affected by the connected reservoir, tubing, handpiece and surgical console, making cross-platform compatibility and leak control important. Manufacturers must manage cleanliness, particulate risk, lumen obstruction, sterile packaging and transport damage across every batch. Commercial challenges include long hospital qualification cycles, surgeon preference for familiar handling characteristics and the difficulty of standardizing performance comparisons among products using different tip designs and aspiration mechanisms. Sustained competitiveness therefore depends on manufacturing discipline, clinical usability and responsive technical support rather than gauge specification alone.

Industry Chain Analysis

The upstream chain for 23G Backflush Instrument includes medical-grade stainless-steel microtubing, polymers used in handles and reservoirs, silicone or other flexible materials used in atraumatic tips, aspiration tubing, connectors, adhesives and sterile-barrier packaging. Microtube concentricity, wall thickness, surface condition and inner-lumen consistency directly influence shaft behavior and flow performance. Polymeric components must maintain dimensional stability, biocompatibility and compatibility with the selected sterilization process. Specialized suppliers of precision tubing, medical

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injection-molded components, silicone tips and packaging materials therefore have an important effect on final product quality and manufacturing yield.

Midstream operations include microtube cutting, straightening or bending, port formation, beveling, deburring, polishing, cleaning, handle and reservoir molding, component assembly, leak testing, flow testing, packaging and sterilization. Value is created through accurate gauge control, reproducible port geometry, reliable aspiration and reflux response, ergonomic handling and stable connection with 23G surgical platforms. Major cost elements include precision materials, forming and finishing, clean-environment assembly, quality inspection, sterilization, regulatory documentation and distribution. Downstream participants include ophthalmic surgical companies, specialized distributors, hospitals, ambulatory surgery centers, retinal clinics, training institutions and medical-device businesses purchasing OEM cannulas or complete instruments. Higher-value products generally combine validated functionality, sterile readiness, supply reliability and compatibility with established vitreoretinal workflows.

Segment Insights

By shaft configuration, straight 23G Backflush Instrument represents the broadly applicable form because it provides a direct access path, predictable rotational orientation and relatively straightforward manufacturing. It is suited to routine aspiration through standard posterior-segment access. Curved products occupy a more specialized position, supporting differentiated approach angles where direct alignment with the target area is difficult. Their performance depends on repeatable curvature, adequate rigidity and preservation of lumen integrity through the formed section.

By effective working length, products of ?15 mm emphasize compact access and direct control, while products above 15 mm support deeper intraocular reach. Current commercial catalogs demonstrate that longer configurations form a meaningful part of the available range, including 22 mm, 28 mm, 32 mm and 33 mm instruments. By distal-end design, flat-end products provide a direct aspiration interface and relatively predictable orientation. Beveled side-port products shift the opening away from the shaft axis, supporting directional aspiration and differentiated positioning near the target area. The strongest technical opportunity lies in coordinating shaft shape, working length and port geometry as a complete design rather than optimizing each parameter independently.

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Downstream Market Opportunities

Ophthalmic care is the principal downstream market for 23G Backflush Instrument, particularly vitreoretinal procedures requiring removal of intraocular fluid, blood or fine debris and controlled management of fluid near the retinal surface. Hospitals, retinal clinics and ambulatory surgical centers prioritize reliable aspiration, intuitive reflux control, atraumatic distal geometry, sterile availability and compatibility with installed 23G systems. Medical education creates demand from teaching hospitals, wet laboratories, simulation centers and specialist training programs, where instruments are used to develop small-gauge hand control and familiarity with posterior-segment workflows. Medical-device companies provide additional opportunities through OEM cannula procurement, private-label instruments, procedure-pack integration and customized handle or distal-tip development. Other applications include product demonstrations, clinical skills assessment and microsurgical research. Suppliers able to reproduce clinical handling characteristics while offering multiple lengths, shaft geometries and aspiration modes can serve both procedural and training requirements without changing the core 23G platform.

Regional Insights

North America and Europe represent important high-value markets for 23G Backflush Instrument because both regions have established vitreoretinal surgery networks, specialized ophthalmic centers and mature medical-device distribution. Demand places considerable emphasis on regulatory documentation, sterile supply, ergonomic consistency, platform compatibility and dependable replenishment. The presence of broad ophthalmic system companies and specialist instrument manufacturers supports diverse purchasing models, including integrated disposable products, reusable backflush systems and replacement cannulas. Procedure-pack standardization and continued investment in retinal surgical platforms sustain recurring replacement demand.

Asia-Pacific offers substantial manufacturing and market-development potential. Japan and parts of Europe maintain strong precision-instrument capabilities, while China combines an expanding ophthalmic treatment base with growing medical-device manufacturing capacity. Other Asian markets are adding retinal diagnostic and surgical services, although procurement requirements vary between premium private institutions and cost-sensitive public hospitals. Regional suppliers can compete through localization, shorter lead times, customization and OEM production, but entry into higher-

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value accounts requires robust sterilization validation and quality systems. Latin America, the Middle East and other developing markets offer incremental opportunities as specialist retinal services expand, with distributor coverage, product registration and clinician training remaining critical market-access factors.

Competitive Landscape Analysis

The 23G Backflush Instrument market comprises global ophthalmic platform companies, specialized vitreoretinal instrument manufacturers and regional precision-device suppliers. Alcon Inc., Carl Zeiss Meditec AG, BVI Medical, Bausch, FCI and Geuder AG benefit from broader ophthalmic portfolios, established clinical relationships or international distribution capabilities. Carl Zeiss Meditec AG has strengthened its vitreoretinal instrument position through DORC, whose portfolio covers 23G blunt, brush, soft-tip, long-shaft and active-aspiration configurations. BVI Medical supplies standard, retractable and extendable 23G products as well as disposable and reusable backflush systems, while Bausch has offered 23G reusable backflush and soft-tip cannulas within its vitreoretinal portfolio. MedOne Surgical, Inc., Sterimedix Limited, Vortex Surgical, Inc., RUMEX International Co., AKTIVE S.r.l. and Surgistar, Inc. participate through specialized instrument ranges, cannula options and focused ophthalmic channels. Madhu Instruments Pvt. Ltd., ISCON Surgicals Ltd., Suzhou Xiehe Medical Instrument Co., Ltd., Suqian Zhengtong Yiliao Qixie Youxian Gongsi, Suzhou Langeli Yiliao Qixie Youxian Gongsi and Suzhou Weizhun Yiliao Keji Youxian Gongsi add regional manufacturing, customization and supply capabilities. Competition centers on aspiration control, tip and lumen consistency, shaft configuration, sterile readiness, ergonomic design, system compatibility, channel access and the ability to support OEM or procedure-specific requirements.

Report Scope

This report studies the global 23G Backflush Instrument production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 23G Backflush Instrument and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of 23G Backflush Instrument that contribute to its increasing demand across many markets.

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Highlights and key features of the study

Global 23G Backflush Instrument total production and demand, 2021-2032, (K Units)

Global 23G Backflush Instrument total production value, 2021-2032, (USD Million)

Global 23G Backflush Instrument production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global 23G Backflush Instrument consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: 23G Backflush Instrument domestic production, consumption, key domestic manufacturers and share

Global 23G Backflush Instrument production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global 23G Backflush Instrument production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global 23G Backflush Instrument production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global 23G Backflush Instrument market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Alcon Inc., Carl Zeiss Meditec AG, BVI Medical, Bausch, MedOne Surgical, Inc., Sterimedix Limited, Vortex Surgical, Inc., FCI, Geuder AG, RUMEX International Co., etc.

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

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Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World 23G Backflush Instrument market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global 23G Backflush Instrument Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global 23G Backflush Instrument Market, Segmentation by Type:

Straight Type

Bent Type

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Global 23G Backflush Instrument Market, Segmentation by Effective Working Length of Needle:

?15mm

>15mm

Global 23G Backflush Instrument Market, Segmentation by Needle End Face:

Flat Type

Beveled Side Hole Type

Global 23G Backflush Instrument Market, Segmentation by Application:

Ophthalmology

Medical Education

Medical Devices

Other

Companies Profiled:

Alcon Inc.

Carl Zeiss Meditec AG

BVI Medical

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Bausch

MedOne Surgical, Inc.

Sterimedix Limited

Vortex Surgical, Inc.

FCI

Geuder AG

RUMEX International Co.

Madhu Instruments Pvt. Ltd.

ISCON Surgicals Ltd.

AKTIVE S.r.l.

Surgistar, Inc.

Suzhou Xiehe Medical Instrument Co., Ltd.

Suqian Zhengtong Yiliao Qixie Youxian Gongsi

Suzhou Langeli Yiliao Qixie Youxian Gongsi

Suzhou Weizhun Yiliao Keji Youxian Gongsi

Key Questions Answered

1. How big is the global 23G Backflush Instrument market?
2. What is the demand of the global 23G Backflush Instrument market?
3. What is the year over year growth of the global 23G Backflush Instrument market?
4. What is the total value of the global 23G Backflush Instrument market?
5. Who are the Major Players in the global 23G Backflush Instrument market?

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6. What are the growth factors driving the market demand?

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Contents

1 SUPPLY SUMMARY

1.1 23G Backflush Instrument Introduction
1.2 World 23G Backflush Instrument Supply & Forecast
  1.2.1 World 23G Backflush Instrument Production Value (2021 & 2025 & 2032)
  1.2.2 World 23G Backflush Instrument Production (2021-2032)
  1.2.3 World 23G Backflush Instrument Pricing Trends (2021-2032)
1.3 World 23G Backflush Instrument Production by Region (Based on Production Site)
  1.3.1 World 23G Backflush Instrument Production Value by Region (2021-2032)
  1.3.2 World 23G Backflush Instrument Production by Region (2021-2032)
  1.3.3 World 23G Backflush Instrument Average Price by Region (2021-2032)
  1.3.4 North America 23G Backflush Instrument Production (2021-2032)
  1.3.5 Europe 23G Backflush Instrument Production (2021-2032)
  1.3.6 China 23G Backflush Instrument Production (2021-2032)
  1.3.7 Japan 23G Backflush Instrument Production (2021-2032)
1.4 Market Drivers, Restraints and Trends
  1.4.1 23G Backflush Instrument Market Drivers
  1.4.2 Factors Affecting Demand
  1.4.3 23G Backflush Instrument Major Market Trends

2 DEMAND SUMMARY

2.1 World 23G Backflush Instrument Demand (2021-2032)
2.2 World 23G Backflush Instrument Consumption by Region
  2.2.1 World 23G Backflush Instrument Consumption by Region (2021-2026)
  2.2.2 World 23G Backflush Instrument Consumption Forecast by Region (2027-2032)
2.3 United States 23G Backflush Instrument Consumption (2021-2032)
2.4 China 23G Backflush Instrument Consumption (2021-2032)
2.5 Europe 23G Backflush Instrument Consumption (2021-2032)
2.6 Japan 23G Backflush Instrument Consumption (2021-2032)
2.7 South Korea 23G Backflush Instrument Consumption (2021-2032)
2.8 ASEAN 23G Backflush Instrument Consumption (2021-2032)
2.9 India 23G Backflush Instrument Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World 23G Backflush Instrument Production Value by Manufacturer (2021-2026)

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3.2 World 23G Backflush Instrument Production by Manufacturer (2021-2026)
3.3 World 23G Backflush Instrument Average Price by Manufacturer (2021-2026)
3.4 23G Backflush Instrument Company Evaluation Quadrant
3.5 Industry Rank and Concentration Rate (CR)
3.5.1 Global 23G Backflush Instrument Industry Rank of Major Manufacturers
3.5.2 Global Concentration Ratios (CR4) for 23G Backflush Instrument in 2025
3.5.3 Global Concentration Ratios (CR8) for 23G Backflush Instrument in 2025
3.6 23G Backflush Instrument Market: Overall Company Footprint Analysis
3.6.1 23G Backflush Instrument Market: Region Footprint
3.6.2 23G Backflush Instrument Market: Company Product Type Footprint
3.6.3 23G Backflush Instrument Market: Company Product Application Footprint
3.7 Competitive Environment
3.7.1 Historical Structure of the Industry
3.7.2 Barriers of Market Entry
3.7.3 Factors of Competition
3.8 New Entrant and Capacity Expansion Plans
3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: 23G Backflush Instrument Production Value Comparison
4.1.1 United States VS China: 23G Backflush Instrument Production Value Comparison (2021 & 2025 & 2032)
4.1.2 United States VS China: 23G Backflush Instrument Production Value Market Share Comparison (2021 & 2025 & 2032)
4.2 United States VS China: 23G Backflush Instrument Production Comparison
4.2.1 United States VS China: 23G Backflush Instrument Production Comparison (2021 & 2025 & 2032)
4.2.2 United States VS China: 23G Backflush Instrument Production Market Share Comparison (2021 & 2025 & 2032)
4.3 United States VS China: 23G Backflush Instrument Consumption Comparison
4.3.1 United States VS China: 23G Backflush Instrument Consumption Comparison (2021 & 2025 & 2032)
4.3.2 United States VS China: 23G Backflush Instrument Consumption Market Share Comparison (2021 & 2025 & 2032)
4.4 United States Based 23G Backflush Instrument Manufacturers and Market Share, 2021-2026
4.4.1 United States Based 23G Backflush Instrument Manufacturers, Headquarters and Production Site (States, Country)

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info@marketpublishers.com

4.4.2 United States Based Manufacturers 23G Backflush Instrument Production Value (2021-2026)
4.4.3 United States Based Manufacturers 23G Backflush Instrument Production (2021-2026)
4.5 China Based 23G Backflush Instrument Manufacturers and Market Share
4.5.1 China Based 23G Backflush Instrument Manufacturers, Headquarters and Production Site (Province, Country)
4.5.2 China Based Manufacturers 23G Backflush Instrument Production Value (2021-2026)
4.5.3 China Based Manufacturers 23G Backflush Instrument Production (2021-2026)
4.6 Rest of World Based 23G Backflush Instrument Manufacturers and Market Share, 2021-2026
4.6.1 Rest of World Based 23G Backflush Instrument Manufacturers, Headquarters and Production Site (State, Country)
4.6.2 Rest of World Based Manufacturers 23G Backflush Instrument Production Value (2021-2026)
4.6.3 Rest of World Based Manufacturers 23G Backflush Instrument Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World 23G Backflush Instrument Market Size Overview by Type: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Type
5.2.1 Straight Type
5.2.2 Bent Type
5.3 Market Segment by Type
5.3.1 World 23G Backflush Instrument Production by Type (2021-2032)
5.3.2 World 23G Backflush Instrument Production Value by Type (2021-2032)
5.3.3 World 23G Backflush Instrument Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY EFFECTIVE WORKING LENGTH OF NEEDLE

6.1 World 23G Backflush Instrument Market Size Overview by Effective Working Length of Needle: 2021 VS 2025 VS 2032
6.2 Segment Introduction by Effective Working Length of Needle
6.2.1 ?15mm
6.2.2 >15mm
6.3 Market Segment by Effective Working Length of Needle

+357 96 030922
info@marketpublishers.com

6.3.1 World 23G Backflush Instrument Production by Effective Working Length of Needle (2021-2032)
6.3.2 World 23G Backflush Instrument Production Value by Effective Working Length of Needle (2021-2032)
6.3.3 World 23G Backflush Instrument Average Price by Effective Working Length of Needle (2021-2032)

7 MARKET ANALYSIS BY NEEDLE END FACE

7.1 World 23G Backflush Instrument Market Size Overview by Needle End Face: 2021 VS 2025 VS 2032
7.2 Segment Introduction by Needle End Face
7.2.1 Flat Type
7.2.2 Beveled Side Hole Type
7.3 Market Segment by Needle End Face
7.3.1 World 23G Backflush Instrument Production by Needle End Face (2021-2032)
7.3.2 World 23G Backflush Instrument Production Value by Needle End Face (2021-2032)
7.3.3 World 23G Backflush Instrument Average Price by Needle End Face (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World 23G Backflush Instrument Market Size Overview by Application: 2021 VS 2025 VS 2032
8.2 Segment Introduction by Application
8.2.1 Ophthalmology
8.2.2 Medical Education
8.2.3 Medical Devices
8.2.4 Other
8.3 Market Segment by Application
8.3.1 World 23G Backflush Instrument Production by Application (2021-2032)
8.3.2 World 23G Backflush Instrument Production Value by Application (2021-2032)
8.3.3 World 23G Backflush Instrument Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Alcon Inc.
9.1.1 Alcon Inc. Details

+357 96 030922
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9.1.2 Alcon Inc. Major Business
9.1.3 Alcon Inc. 23G Backflush Instrument Product and Services
9.1.4 Alcon Inc. 23G Backflush Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.1.5 Alcon Inc. Recent Developments/Updates
9.1.6 Alcon Inc. Competitive Strengths & Weaknesses
9.2 Carl Zeiss Meditec AG
9.2.1 Carl Zeiss Meditec AG Details
9.2.2 Carl Zeiss Meditec AG Major Business
9.2.3 Carl Zeiss Meditec AG 23G Backflush Instrument Product and Services
9.2.4 Carl Zeiss Meditec AG 23G Backflush Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.2.5 Carl Zeiss Meditec AG Recent Developments/Updates
9.2.6 Carl Zeiss Meditec AG Competitive Strengths & Weaknesses
9.3 BVI Medical
9.3.1 BVI Medical Details
9.3.2 BVI Medical Major Business
9.3.3 BVI Medical 23G Backflush Instrument Product and Services
9.3.4 BVI Medical 23G Backflush Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.3.5 BVI Medical Recent Developments/Updates
9.3.6 BVI Medical Competitive Strengths & Weaknesses
9.4 Bausch
9.4.1 Bausch Details
9.4.2 Bausch Major Business
9.4.3 Bausch 23G Backflush Instrument Product and Services
9.4.4 Bausch 23G Backflush Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.4.5 Bausch Recent Developments/Updates
9.4.6 Bausch Competitive Strengths & Weaknesses
9.5 MedOne Surgical, Inc.
9.5.1 MedOne Surgical, Inc. Details
9.5.2 MedOne Surgical, Inc. Major Business
9.5.3 MedOne Surgical, Inc. 23G Backflush Instrument Product and Services
9.5.4 MedOne Surgical, Inc. 23G Backflush Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.5.5 MedOne Surgical, Inc. Recent Developments/Updates
9.5.6 MedOne Surgical, Inc. Competitive Strengths & Weaknesses
9.6 Sterimedix Limited

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info@marketpublishers.com

9.6.1 Sterimedix Limited Details
9.6.2 Sterimedix Limited Major Business
9.6.3 Sterimedix Limited 23G Backflush Instrument Product and Services
9.6.4 Sterimedix Limited 23G Backflush Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.6.5 Sterimedix Limited Recent Developments/Updates
9.6.6 Sterimedix Limited Competitive Strengths & Weaknesses
9.7 Vortex Surgical, Inc.
9.7.1 Vortex Surgical, Inc. Details
9.7.2 Vortex Surgical, Inc. Major Business
9.7.3 Vortex Surgical, Inc. 23G Backflush Instrument Product and Services
9.7.4 Vortex Surgical, Inc. 23G Backflush Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.7.5 Vortex Surgical, Inc. Recent Developments/Updates
9.7.6 Vortex Surgical, Inc. Competitive Strengths & Weaknesses
9.8 FCI
9.8.1 FCI Details
9.8.2 FCI Major Business
9.8.3 FCI 23G Backflush Instrument Product and Services
9.8.4 FCI 23G Backflush Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.8.5 FCI Recent Developments/Updates
9.8.6 FCI Competitive Strengths & Weaknesses
9.9 Geuder AG
9.9.1 Geuder AG Details
9.9.2 Geuder AG Major Business
9.9.3 Geuder AG 23G Backflush Instrument Product and Services
9.9.4 Geuder AG 23G Backflush Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.9.5 Geuder AG Recent Developments/Updates
9.9.6 Geuder AG Competitive Strengths & Weaknesses
9.10 RUMEX International Co.
9.10.1 RUMEX International Co. Details
9.10.2 RUMEX International Co. Major Business
9.10.3 RUMEX International Co. 23G Backflush Instrument Product and Services
9.10.4 RUMEX International Co. 23G Backflush Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.10.5 RUMEX International Co. Recent Developments/Updates
9.10.6 RUMEX International Co. Competitive Strengths & Weaknesses

+357 96 030922
info@marketpublishers.com

9.11 Madhu Instruments Pvt. Ltd.
9.11.1 Madhu Instruments Pvt. Ltd. Details
9.11.2 Madhu Instruments Pvt. Ltd. Major Business
9.11.3 Madhu Instruments Pvt. Ltd. 23G Backflush Instrument Product and Services
9.11.4 Madhu Instruments Pvt. Ltd. 23G Backflush Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.11.5 Madhu Instruments Pvt. Ltd. Recent Developments/Updates
9.11.6 Madhu Instruments Pvt. Ltd. Competitive Strengths & Weaknesses
9.12 ISCON Surgicals Ltd.
9.12.1 ISCON Surgicals Ltd. Details
9.12.2 ISCON Surgicals Ltd. Major Business
9.12.3 ISCON Surgicals Ltd. 23G Backflush Instrument Product and Services
9.12.4 ISCON Surgicals Ltd. 23G Backflush Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.12.5 ISCON Surgicals Ltd. Recent Developments/Updates
9.12.6 ISCON Surgicals Ltd. Competitive Strengths & Weaknesses
9.13 AKTIVE S.r.l.
9.13.1 AKTIVE S.r.l. Details
9.13.2 AKTIVE S.r.l. Major Business
9.13.3 AKTIVE S.r.l. 23G Backflush Instrument Product and Services
9.13.4 AKTIVE S.r.l. 23G Backflush Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.13.5 AKTIVE S.r.l. Recent Developments/Updates
9.13.6 AKTIVE S.r.l. Competitive Strengths & Weaknesses
9.14 Surgistar, Inc.
9.14.1 Surgistar, Inc. Details
9.14.2 Surgistar, Inc. Major Business
9.14.3 Surgistar, Inc. 23G Backflush Instrument Product and Services
9.14.4 Surgistar, Inc. 23G Backflush Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.14.5 Surgistar, Inc. Recent Developments/Updates
9.14.6 Surgistar, Inc. Competitive Strengths & Weaknesses
9.15 Suzhou Xiehe Medical Instrument Co., Ltd.
9.15.1 Suzhou Xiehe Medical Instrument Co., Ltd. Details
9.15.2 Suzhou Xiehe Medical Instrument Co., Ltd. Major Business
9.15.3 Suzhou Xiehe Medical Instrument Co., Ltd. 23G Backflush Instrument Product and Services
9.15.4 Suzhou Xiehe Medical Instrument Co., Ltd. 23G Backflush Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)

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9.15.5 Suzhou Xiehe Medical Instrument Co., Ltd. Recent Developments/Updates
9.15.6 Suzhou Xiehe Medical Instrument Co., Ltd. Competitive Strengths & Weaknesses
9.16 Suqian Zhengtong Yiliao Qixie Youxian Gongsi
9.16.1 Suqian Zhengtong Yiliao Qixie Youxian Gongsi Details
9.16.2 Suqian Zhengtong Yiliao Qixie Youxian Gongsi Major Business
9.16.3 Suqian Zhengtong Yiliao Qixie Youxian Gongsi 23G Backflush Instrument Product and Services
9.16.4 Suqian Zhengtong Yiliao Qixie Youxian Gongsi 23G Backflush Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.16.5 Suqian Zhengtong Yiliao Qixie Youxian Gongsi Recent Developments/Updates
9.16.6 Suqian Zhengtong Yiliao Qixie Youxian Gongsi Competitive Strengths & Weaknesses
9.17 Suzhou Langeli Yiliao Qixie Youxian Gongsi
9.17.1 Suzhou Langeli Yiliao Qixie Youxian Gongsi Details
9.17.2 Suzhou Langeli Yiliao Qixie Youxian Gongsi Major Business
9.17.3 Suzhou Langeli Yiliao Qixie Youxian Gongsi 23G Backflush Instrument Product and Services
9.17.4 Suzhou Langeli Yiliao Qixie Youxian Gongsi 23G Backflush Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.17.5 Suzhou Langeli Yiliao Qixie Youxian Gongsi Recent Developments/Updates
9.17.6 Suzhou Langeli Yiliao Qixie Youxian Gongsi Competitive Strengths & Weaknesses
9.18 Suzhou Weizhun Yiliao Keji Youxian Gongsi
9.18.1 Suzhou Weizhun Yiliao Keji Youxian Gongsi Details
9.18.2 Suzhou Weizhun Yiliao Keji Youxian Gongsi Major Business
9.18.3 Suzhou Weizhun Yiliao Keji Youxian Gongsi 23G Backflush Instrument Product and Services
9.18.4 Suzhou Weizhun Yiliao Keji Youxian Gongsi 23G Backflush Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.18.5 Suzhou Weizhun Yiliao Keji Youxian Gongsi Recent Developments/Updates
9.18.6 Suzhou Weizhun Yiliao Keji Youxian Gongsi Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 23G Backflush Instrument Industry Chain
10.2 23G Backflush Instrument Upstream Analysis
10.2.1 23G Backflush Instrument Core Raw Materials

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10.2.2 Main Manufacturers of 23G Backflush Instrument Core Raw Materials
10.3 Midstream Analysis
10.4 Downstream Analysis
10.5 23G Backflush Instrument Production Mode
10.6 23G Backflush Instrument Procurement Model
10.7 23G Backflush Instrument Industry Sales Model and Sales Channels
10.7.1 23G Backflush Instrument Sales Model
10.7.2 23G Backflush Instrument Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology
12.2 Research Process and Data Source
12.3 Disclaimer

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List Of Tables

LIST OF TABLES

Table 1. World 23G Backflush Instrument Production Value by Region (2021, 2025 and 2032) & (USD Million)
Table 2. World 23G Backflush Instrument Production Value by Region (2021-2026) & (USD Million)
Table 3. World 23G Backflush Instrument Production Value by Region (2027-2032) & (USD Million)
Table 4. World 23G Backflush Instrument Production Value Market Share by Region (2021-2026)
Table 5. World 23G Backflush Instrument Production Value Market Share by Region (2027-2032)
Table 6. World 23G Backflush Instrument Production by Region (2021-2026) & (K Units)
Table 7. World 23G Backflush Instrument Production by Region (2027-2032) & (K Units)
Table 8. World 23G Backflush Instrument Production Market Share by Region (2021-2026)
Table 9. World 23G Backflush Instrument Production Market Share by Region (2027-2032)
Table 10. World 23G Backflush Instrument Average Price by Region (2021-2026) & (US$/Unit)
Table 11. World 23G Backflush Instrument Average Price by Region (2027-2032) & (US$/Unit)
Table 12. 23G Backflush Instrument Major Market Trends
Table 13. World 23G Backflush Instrument Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
Table 14. World 23G Backflush Instrument Consumption by Region (2021-2026) & (K Units)
Table 15. World 23G Backflush Instrument Consumption Forecast by Region (2027-2032) & (K Units)
Table 16. World 23G Backflush Instrument Production Value by Manufacturer (2021-2026) & (USD Million)
Table 17. Production Value Market Share of Key 23G Backflush Instrument Producers in 2025
Table 18. World 23G Backflush Instrument Production by Manufacturer (2021-2026) & (K Units)
Table 19. Production Market Share of Key 23G Backflush Instrument Producers in 2025
Table 20. World 23G Backflush Instrument Average Price by Manufacturer (2021-2026)

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& (US$/Unit)
Table 21. Global 23G Backflush Instrument Company Evaluation Quadrant
Table 22. World 23G Backflush Instrument Industry Rank of Major Manufacturers, Based on Production Value in 2025
Table 23. Head Office and 23G Backflush Instrument Production Site of Key Manufacturer
Table 24. 23G Backflush Instrument Market: Company Product Type Footprint
Table 25. 23G Backflush Instrument Market: Company Product Application Footprint
Table 26. 23G Backflush Instrument Competitive Factors
Table 27. 23G Backflush Instrument New Entrant and Capacity Expansion Plans
Table 28. 23G Backflush Instrument Mergers & Acquisitions Activity
Table 29. United States VS China 23G Backflush Instrument Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China 23G Backflush Instrument Production Comparison, (2021 & 2025 & 2032) & (K Units)
Table 31. United States VS China 23G Backflush Instrument Consumption Comparison, (2021 & 2025 & 2032) & (K Units)
Table 32. United States Based 23G Backflush Instrument Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers 23G Backflush Instrument Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers 23G Backflush Instrument Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers 23G Backflush Instrument Production (2021-2026) & (K Units)
Table 36. United States Based Manufacturers 23G Backflush Instrument Production Market Share (2021-2026)
Table 37. China Based 23G Backflush Instrument Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers 23G Backflush Instrument Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers 23G Backflush Instrument Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers 23G Backflush Instrument Production, (2021-2026) & (K Units)
Table 41. China Based Manufacturers 23G Backflush Instrument Production Market Share (2021-2026)
Table 42. Rest of World Based 23G Backflush Instrument Manufacturers, Headquarters and Production Site (State, Country)

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Table 43. Rest of World Based Manufacturers 23G Backflush Instrument Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers 23G Backflush Instrument Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers 23G Backflush Instrument Production, (2021-2026) & (K Units)
Table 46. Rest of World Based Manufacturers 23G Backflush Instrument Production Market Share (2021-2026)
Table 47. World 23G Backflush Instrument Production Value by Type, (USD Million), 2021 & 2025 & 2032
Table 48. World 23G Backflush Instrument Production by Type (2021-2026) & (K Units)
Table 49. World 23G Backflush Instrument Production by Type (2027-2032) & (K Units)
Table 50. World 23G Backflush Instrument Production Value by Type (2021-2026) & (USD Million)
Table 51. World 23G Backflush Instrument Production Value by Type (2027-2032) & (USD Million)
Table 52. World 23G Backflush Instrument Average Price by Type (2021-2026) & (US$/Unit)
Table 53. World 23G Backflush Instrument Average Price by Type (2027-2032) & (US$/Unit)
Table 54. World 23G Backflush Instrument Production Value by Effective Working Length of Needle, (USD Million), 2021 & 2025 & 2032
Table 55. World 23G Backflush Instrument Production by Effective Working Length of Needle (2021-2026) & (K Units)
Table 56. World 23G Backflush Instrument Production by Effective Working Length of Needle (2027-2032) & (K Units)
Table 57. World 23G Backflush Instrument Production Value by Effective Working Length of Needle (2021-2026) & (USD Million)
Table 58. World 23G Backflush Instrument Production Value by Effective Working Length of Needle (2027-2032) & (USD Million)
Table 59. World 23G Backflush Instrument Average Price by Effective Working Length of Needle (2021-2026) & (US$/Unit)
Table 60. World 23G Backflush Instrument Average Price by Effective Working Length of Needle (2027-2032) & (US$/Unit)
Table 61. World 23G Backflush Instrument Production Value by Needle End Face, (USD Million), 2021 & 2025 & 2032
Table 62. World 23G Backflush Instrument Production by Needle End Face (2021-2026) & (K Units)
Table 63. World 23G Backflush Instrument Production by Needle End Face (2027-2032)

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& (K Units)
Table 64. World 23G Backflush Instrument Production Value by Needle End Face (2021-2026) & (USD Million)
Table 65. World 23G Backflush Instrument Production Value by Needle End Face (2027-2032) & (USD Million)
Table 66. World 23G Backflush Instrument Average Price by Needle End Face (2021-2026) & (US$/Unit)
Table 67. World 23G Backflush Instrument Average Price by Needle End Face (2027-2032) & (US$/Unit)
Table 68. World 23G Backflush Instrument Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 69. World 23G Backflush Instrument Production by Application (2021-2026) & (K Units)
Table 70. World 23G Backflush Instrument Production by Application (2027-2032) & (K Units)
Table 71. World 23G Backflush Instrument Production Value by Application (2021-2026) & (USD Million)
Table 72. World 23G Backflush Instrument Production Value by Application (2027-2032) & (USD Million)
Table 73. World 23G Backflush Instrument Average Price by Application (2021-2026) & (US$/Unit)
Table 74. World 23G Backflush Instrument Average Price by Application (2027-2032) & (US$/Unit)
Table 75. Alcon Inc. Basic Information, Manufacturing Base and Competitors
Table 76. Alcon Inc. Major Business
Table 77. Alcon Inc. 23G Backflush Instrument Product and Services
Table 78. Alcon Inc. 23G Backflush Instrument Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 79. Alcon Inc. Recent Developments/Updates
Table 80. Alcon Inc. Competitive Strengths & Weaknesses
Table 81. Carl Zeiss Meditec AG Basic Information, Manufacturing Base and Competitors
Table 82. Carl Zeiss Meditec AG Major Business
Table 83. Carl Zeiss Meditec AG 23G Backflush Instrument Product and Services
Table 84. Carl Zeiss Meditec AG 23G Backflush Instrument Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Carl Zeiss Meditec AG Recent Developments/Updates
Table 86. Carl Zeiss Meditec AG Competitive Strengths & Weaknesses

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Table 87. BVI Medical Basic Information, Manufacturing Base and Competitors
Table 88. BVI Medical Major Business
Table 89. BVI Medical 23G Backflush Instrument Product and Services
Table 90. BVI Medical 23G Backflush Instrument Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. BVI Medical Recent Developments/Updates
Table 92. BVI Medical Competitive Strengths & Weaknesses
Table 93. Bausch Basic Information, Manufacturing Base and Competitors
Table 94. Bausch Major Business
Table 95. Bausch 23G Backflush Instrument Product and Services
Table 96. Bausch 23G Backflush Instrument Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Bausch Recent Developments/Updates
Table 98. Bausch Competitive Strengths & Weaknesses
Table 99. MedOne Surgical, Inc. Basic Information, Manufacturing Base and Competitors
Table 100. MedOne Surgical, Inc. Major Business
Table 101. MedOne Surgical, Inc. 23G Backflush Instrument Product and Services
Table 102. MedOne Surgical, Inc. 23G Backflush Instrument Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. MedOne Surgical, Inc. Recent Developments/Updates
Table 104. MedOne Surgical, Inc. Competitive Strengths & Weaknesses
Table 105. Sterimedix Limited Basic Information, Manufacturing Base and Competitors
Table 106. Sterimedix Limited Major Business
Table 107. Sterimedix Limited 23G Backflush Instrument Product and Services
Table 108. Sterimedix Limited 23G Backflush Instrument Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Sterimedix Limited Recent Developments/Updates
Table 110. Sterimedix Limited Competitive Strengths & Weaknesses
Table 111. Vortex Surgical, Inc. Basic Information, Manufacturing Base and Competitors
Table 112. Vortex Surgical, Inc. Major Business
Table 113. Vortex Surgical, Inc. 23G Backflush Instrument Product and Services
Table 114. Vortex Surgical, Inc. 23G Backflush Instrument Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Vortex Surgical, Inc. Recent Developments/Updates

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Table 116. Vortex Surgical, Inc. Competitive Strengths & Weaknesses
Table 117. FCI Basic Information, Manufacturing Base and Competitors
Table 118. FCI Major Business
Table 119. FCI 23G Backflush Instrument Product and Services
Table 120. FCI 23G Backflush Instrument Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. FCI Recent Developments/Updates
Table 122. FCI Competitive Strengths & Weaknesses
Table 123. Geuder AG Basic Information, Manufacturing Base and Competitors
Table 124. Geuder AG Major Business
Table 125. Geuder AG 23G Backflush Instrument Product and Services
Table 126. Geuder AG 23G Backflush Instrument Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Geuder AG Recent Developments/Updates
Table 128. Geuder AG Competitive Strengths & Weaknesses
Table 129. RUMEX International Co. Basic Information, Manufacturing Base and Competitors
Table 130. RUMEX International Co. Major Business
Table 131. RUMEX International Co. 23G Backflush Instrument Product and Services
Table 132. RUMEX International Co. 23G Backflush Instrument Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. RUMEX International Co. Recent Developments/Updates
Table 134. RUMEX International Co. Competitive Strengths & Weaknesses
Table 135. Madhu Instruments Pvt. Ltd. Basic Information, Manufacturing Base and Competitors
Table 136. Madhu Instruments Pvt. Ltd. Major Business
Table 137. Madhu Instruments Pvt. Ltd. 23G Backflush Instrument Product and Services
Table 138. Madhu Instruments Pvt. Ltd. 23G Backflush Instrument Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. Madhu Instruments Pvt. Ltd. Recent Developments/Updates
Table 140. Madhu Instruments Pvt. Ltd. Competitive Strengths & Weaknesses
Table 141. ISCON Surgicals Ltd. Basic Information, Manufacturing Base and Competitors
Table 142. ISCON Surgicals Ltd. Major Business
Table 143. ISCON Surgicals Ltd. 23G Backflush Instrument Product and Services

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Table 144. ISCON Surgicals Ltd. 23G Backflush Instrument Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. ISCON Surgicals Ltd. Recent Developments/Updates
Table 146. ISCON Surgicals Ltd. Competitive Strengths & Weaknesses
Table 147. AKTIVE S.r.l. Basic Information, Manufacturing Base and Competitors
Table 148. AKTIVE S.r.l. Major Business
Table 149. AKTIVE S.r.l. 23G Backflush Instrument Product and Services
Table 150. AKTIVE S.r.l. 23G Backflush Instrument Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 151. AKTIVE S.r.l. Recent Developments/Updates
Table 152. AKTIVE S.r.l. Competitive Strengths & Weaknesses
Table 153. Surgistar, Inc. Basic Information, Manufacturing Base and Competitors
Table 154. Surgistar, Inc. Major Business
Table 155. Surgistar, Inc. 23G Backflush Instrument Product and Services
Table 156. Surgistar, Inc. 23G Backflush Instrument Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 157. Surgistar, Inc. Recent Developments/Updates
Table 158. Surgistar, Inc. Competitive Strengths & Weaknesses
Table 159. Suzhou Xiehe Medical Instrument Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 160. Suzhou Xiehe Medical Instrument Co., Ltd. Major Business
Table 161. Suzhou Xiehe Medical Instrument Co., Ltd. 23G Backflush Instrument Product and Services
Table 162. Suzhou Xiehe Medical Instrument Co., Ltd. 23G Backflush Instrument Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 163. Suzhou Xiehe Medical Instrument Co., Ltd. Recent Developments/Updates
Table 164. Suzhou Xiehe Medical Instrument Co., Ltd. Competitive Strengths & Weaknesses
Table 165. Suqian Zhengtong Yiliao Qixie Youxian Gongsi Basic Information, Manufacturing Base and Competitors
Table 166. Suqian Zhengtong Yiliao Qixie Youxian Gongsi Major Business
Table 167. Suqian Zhengtong Yiliao Qixie Youxian Gongsi 23G Backflush Instrument Product and Services
Table 168. Suqian Zhengtong Yiliao Qixie Youxian Gongsi 23G Backflush Instrument Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin

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and Market Share (2021-2026)
Table 169. Suqian Zhengtong Yiliao Qixie Youxian Gongsi Recent Developments/Updates
Table 170. Suqian Zhengtong Yiliao Qixie Youxian Gongsi Competitive Strengths & Weaknesses
Table 171. Suzhou Langeli Yiliao Qixie Youxian Gongsi Basic Information, Manufacturing Base and Competitors
Table 172. Suzhou Langeli Yiliao Qixie Youxian Gongsi Major Business
Table 173. Suzhou Langeli Yiliao Qixie Youxian Gongsi 23G Backflush Instrument Product and Services
Table 174. Suzhou Langeli Yiliao Qixie Youxian Gongsi 23G Backflush Instrument Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 175. Suzhou Langeli Yiliao Qixie Youxian Gongsi Recent Developments/Updates
Table 176. Suzhou Langeli Yiliao Qixie Youxian Gongsi Competitive Strengths & Weaknesses
Table 177. Suzhou Weizhun Yiliao Keji Youxian Gongsi Basic Information, Manufacturing Base and Competitors
Table 178. Suzhou Weizhun Yiliao Keji Youxian Gongsi Major Business
Table 179. Suzhou Weizhun Yiliao Keji Youxian Gongsi 23G Backflush Instrument Product and Services
Table 180. Suzhou Weizhun Yiliao Keji Youxian Gongsi 23G Backflush Instrument Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 181. Suzhou Weizhun Yiliao Keji Youxian Gongsi Recent Developments/Updates
Table 182. Suzhou Weizhun Yiliao Keji Youxian Gongsi Competitive Strengths & Weaknesses
Table 183. Global Key Players of 23G Backflush Instrument Upstream (Raw Materials)
Table 184. Global 23G Backflush Instrument Typical Customers
Table 185. 23G Backflush Instrument Typical Distributors

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List Of Figures

LIST OF FIGURES

Figure 1. 23G Backflush Instrument Picture
Figure 2. World 23G Backflush Instrument Production Value: 2021 & 2025 & 2032, (USD Million)
Figure 3. World 23G Backflush Instrument Production Value and Forecast (2021-2032) & (USD Million)
Figure 4. World 23G Backflush Instrument Production (2021-2032) & (K Units)
Figure 5. World 23G Backflush Instrument Average Price (2021-2032) & (US$/Unit)
Figure 6. World 23G Backflush Instrument Production Value Market Share by Region (2021-2032)
Figure 7. World 23G Backflush Instrument Production Market Share by Region (2021-2032)
Figure 8. North America 23G Backflush Instrument Production (2021-2032) & (K Units)
Figure 9. Europe 23G Backflush Instrument Production (2021-2032) & (K Units)
Figure 10. China 23G Backflush Instrument Production (2021-2032) & (K Units)
Figure 11. Japan 23G Backflush Instrument Production (2021-2032) & (K Units)
Figure 12. 23G Backflush Instrument Market Drivers
Figure 13. Factors Affecting Demand
Figure 14. World 23G Backflush Instrument Consumption (2021-2032) & (K Units)
Figure 15. World 23G Backflush Instrument Consumption Market Share by Region (2021-2032)
Figure 16. United States 23G Backflush Instrument Consumption (2021-2032) & (K Units)
Figure 17. China 23G Backflush Instrument Consumption (2021-2032) & (K Units)
Figure 18. Europe 23G Backflush Instrument Consumption (2021-2032) & (K Units)
Figure 19. Japan 23G Backflush Instrument Consumption (2021-2032) & (K Units)
Figure 20. South Korea 23G Backflush Instrument Consumption (2021-2032) & (K Units)
Figure 21. ASEAN 23G Backflush Instrument Consumption (2021-2032) & (K Units)
Figure 22. India 23G Backflush Instrument Consumption (2021-2032) & (K Units)
Figure 23. Producer Shipments of 23G Backflush Instrument by Manufacturer Revenue ($MM) and Market Share (%): 2025
Figure 24. Global Four-firm Concentration Ratios (CR4) for 23G Backflush Instrument Markets in 2025
Figure 25. Global Four-firm Concentration Ratios (CR8) for 23G Backflush Instrument Markets in 2025

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Figure 26. United States VS China: 23G Backflush Instrument Production Value Market Share Comparison (2021 & 2025 & 2032)
Figure 27. United States VS China: 23G Backflush Instrument Production Market Share Comparison (2021 & 2025 & 2032)
Figure 28. United States VS China: 23G Backflush Instrument Consumption Market Share Comparison (2021 & 2025 & 2032)
Figure 29. United States Based Manufacturers 23G Backflush Instrument Production Market Share 2025
Figure 30. China Based Manufacturers 23G Backflush Instrument Production Market Share 2025
Figure 31. Rest of World Based Manufacturers 23G Backflush Instrument Production Market Share 2025
Figure 32. World 23G Backflush Instrument Production Value by Type, (USD Million), 2021 & 2025 & 2032
Figure 33. World 23G Backflush Instrument Production Value Market Share by Type in 2025
Figure 34. Straight Type
Figure 35. Bent Type
Figure 36. World 23G Backflush Instrument Production Market Share by Type (2021-2032)
Figure 37. World 23G Backflush Instrument Production Value Market Share by Type (2021-2032)
Figure 38. World 23G Backflush Instrument Average Price by Type (2021-2032) & (US$/Unit)
Figure 39. World 23G Backflush Instrument Production Value by Effective Working Length of Needle, (USD Million), 2021 & 2025 & 2032
Figure 40. World 23G Backflush Instrument Production Value Market Share by Effective Working Length of Needle in 2025
Figure 41. ?15mm
Figure 42. >15mm
Figure 43. World 23G Backflush Instrument Production Market Share by Effective Working Length of Needle (2021-2032)
Figure 44. World 23G Backflush Instrument Production Value Market Share by Effective Working Length of Needle (2021-2032)
Figure 45. World 23G Backflush Instrument Average Price by Effective Working Length of Needle (2021-2032) & (US$/Unit)
Figure 46. World 23G Backflush Instrument Production Value by Needle End Face, (USD Million), 2021 & 2025 & 2032
Figure 47. World 23G Backflush Instrument Production Value Market Share by Needle

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End Face in 2025
Figure 48. Flat Type
Figure 49. Beveled Side Hole Type
Figure 50. World 23G Backflush Instrument Production Market Share by Needle End Face (2021-2032)
Figure 51. World 23G Backflush Instrument Production Value Market Share by Needle End Face (2021-2032)
Figure 52. World 23G Backflush Instrument Average Price by Needle End Face (2021-2032) & (US$/Unit)
Figure 53. World 23G Backflush Instrument Production Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 54. World 23G Backflush Instrument Production Value Market Share by Application in 2025
Figure 55. Ophthalmology
Figure 56. Medical Education
Figure 57. Medical Devices
Figure 58. Other
Figure 59. World 23G Backflush Instrument Production Market Share by Application (2021-2032)
Figure 60. World 23G Backflush Instrument Production Value Market Share by Application (2021-2032)
Figure 61. World 23G Backflush Instrument Average Price by Application (2021-2032) & (US$/Unit)
Figure 62. 23G Backflush Instrument Industry Chain
Figure 63. 23G Backflush Instrument Procurement Model
Figure 64. 23G Backflush Instrument Sales Model
Figure 65. 23G Backflush Instrument Sales Channels, Direct Sales, and Distribution
Figure 66. Methodology
Figure 67. Research Process and Data Source

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