

Global Insufflation Needles Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Insufflation Needles market size is expected to reach \$ 255 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

An Insufflation Needle is a puncture instrument used in laparoscopic surgery, primarily designed to inject carbon dioxide gas into the abdominal cavity before surgery to establish a pneumoperitoneum, thereby creating a clear operative space for surgeons. According to the GMDN definition, an insufflation needle is a long, slender, sharp-tipped metal tube intended to introduce or remove gas into the peritoneal cavity. Its most typical representative is the Veress needle, with the core safety feature being the spring-loaded blunt obturator mechanism. When the needle tip encounters resistance while penetrating the abdominal wall muscle tissue, the blunt obturator retracts into the needle shaft to expose the sharp tip for puncture. Once the peritoneum is passed and the needle enters the resistance-free abdominal cavity, the spring immediately deploys the blunt tip to protect intra-abdominal organs. From an industrial perspective, the Insufflation Needle is not only a fundamental instrument in laparoscopic surgery but also a critical benchmark for measuring the safety and operational efficiency of minimally invasive surgery. It drives upstream technological upgrades in medical-grade stainless steel precision machining, plastic injection molding, and spring manufacturing, while directly empowering downstream laparoscopic surgical scenarios in gynecology, general surgery, and urology.

Market Development Opportunities and Key Drivers

The continuous rise in global minimally invasive surgery penetration is the core engine driving the demand for insufflation needles. The steady growth in laparoscopic procedures has built a foundation of rigid demand. Single-use insufflation needles, with

their clinical advantages of eliminating cross-infection risk and reprocessing steps, are accelerating the substitution of reusable products. Traditional insufflation needle use relies on surgeons' subjective tactile sense to determine peritoneal entry, a process associated with a certain probability of complications. The industry is actively exploring guidance technologies based on vibro-acoustic sensing, which have achieved nearly one hundred percent accuracy in correctly identifying puncture. Integration schemes combining optical coherence tomography with insufflation needles have also entered clinical validation stages.

Market Challenges and Risks

Safety concerns during insufflation needle application remain a core industry challenge. Clinical statistics show that some laparoscopic complications occur during the insufflation establishment phase, with bowel and vascular injuries accounting for a significant proportion, and a non-negligible rate of intraoperative oversight. A considerable proportion of surgeons lack sufficient confidence when using the device, with approximately half believing the spring mechanism fails to clearly indicate correct peritoneal entry. As sterile medical devices, single-use products must simultaneously meet the differentiated requirements of FDA and EU MDR regulations for global registration, significantly extending the product commercialization cycle.

Downstream Demand Trends

The continuous increase in laparoscopic procedure volumes has created a stable demand pool for insufflation needles. The higher scheduling density in gynecology, bariatric surgery, and urology has raised the routine consumption frequency per hospital. Healthcare institutions are shifting from price comparison to prioritizing upgraded products with safety protection and visualization guidance capabilities. Single-use insufflation needles align with the efficiency demands of ambulatory surgery centers. Surgeon groups show clear interest in novel devices with vibro-acoustic feedback guidance, a technology regarded as a potential paradigm breakthrough for insufflation needle safety.

Regional Trends

North America maintains its leading position in standardized management of single-use insufflation needles, supported by the FDA premarket notification process and UDI system, setting high selection thresholds for products with safety protection features. Europe holds traditional advantages in clinical evidence accumulation for precision

surgical instruments, with the Tuttlingen industrial cluster in Germany building an unassailable process moat in precision grinding and quality consistency. The Asia-Pacific region is becoming a concentrated hub for global manufacturing capacity. The Yangtze River Delta in China, leveraging its precision processing capabilities, has enabled local manufacturers to achieve large-scale production while meeting international puncture force standards, with an ongoing transition from pure OEM to applying for FDA and CE certifications under proprietary brands.

This report studies the global Insufflation Needles production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Insufflation Needles 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 Insufflation Needles that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Insufflation Needles total production and demand, 2021-2032, (Units)

Global Insufflation Needles total production value, 2021-2032, (USD Million)

Global Insufflation Needles production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Insufflation Needles consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Insufflation Needles domestic production, consumption, key domestic manufacturers and share

Global Insufflation Needles production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Insufflation Needles production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Insufflation Needles production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Insufflation Needles 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 Johnson & Johnson, Medtronic, GENICON, Applied Medical, CONMED, KARL STORZ, Richard Wolf, WISAP Medical, Grena, Sejong Medical, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Insufflation Needles market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (USD/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 Insufflation Needles Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Insufflation Needles Market, Segmentation by Type:

Spring-Loaded Blunt Obturator Insufflation Needle

Non-Spring-Loaded Insufflation Needle

Global Insufflation Needles Market, Segmentation by Reusability:

Single Use Insufflation Needle

Reusable Insufflation Needle

Global Insufflation Needles Market, Segmentation by Needle Diameter:

2.0mm Insufflation Needle

2.5mm Insufflation Needle

Global Insufflation Needles Market, Segmentation by Application:

Laparoscopic Surgery

Thoracentesis

Other

Companies Profiled:

Johnson & Johnson

Medtronic

GENICON

Applied Medical

CONMED

KARL STORZ

Richard Wolf

WISAP Medical

Grena

Sejong Medical

Gimmi GmbH

Aesculap AG

Advanced Medical Design

Advin Health Care

Acheron Instruments

PAJUNK

DeMaiDi Medical

Microcure Medical

YOUSHI

Unimicro Medical

Chengpu Medical

Key Questions Answered:

1. How big is the global Insufflation Needles market?
2. What is the demand of the global Insufflation Needles market?
3. What is the year over year growth of the global Insufflation Needles market?
4. What is the production and production value of the global Insufflation Needles market?
5. Who are the key producers in the global Insufflation Needles market?
6. What are the growth factors driving the market demand?

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