

U.S. Disposable Trocars Market Size, Share & Trends Analysis Report By Tip (Bladeless Trocars, Optical Trocars, Blunt Trocars, Bladed Trocars), By Application (General Surgery, Gynecological Surgery, Urological Surgery, Pediatric Surgery), And Segment Forecasts, 2025 - 2033

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Abstracts

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U.S. Disposable Trocars Market Trends

The U.S. disposable trocars market size was estimated at USD 135.11 million in 2024 and is projected to reach USD 209.62 million by 2033, growing at a CAGR of 5.00% from 2025 to 2033. The market growth is attributed to the country's high volume of minimally invasive surgical procedures, including laparoscopic, bariatric, gynecological, and urological surgeries requiring reliable and sterile access devices. The rapid expansion of ambulatory surgical centers (ASCs), where infection control, efficiency, and turnaround time are top priorities, further accelerates the demand for single-use trocars. In addition, the growing integration of robotic-assisted surgical systems in hospitals, such as the da Vinci platform, has fueled the need for advanced optical and bladeless trocars that ensure precision and compatibility. Strict FDA infection control regulations and post-COVID emphasis on sterility have made disposable options more attractive than reusable ones, while ongoing technological innovations, such as universal seals and low-profile cannulas, enhance surgeon preference and drive market growth.

The growing adoption of robotic-assisted systems such as Intuitive Surgical's da Vinci

platform in U.S. hospitals drives demand for precision-compatible surgical tools. These procedures rely on accurate trocar placement and benefit significantly from optical and specialized disposable trocars that integrate seamlessly with robotic instruments. As advanced visualization and navigation technologies become more common in surgery, there is a rising need for high-performance trocars that offer enhanced control, stability, and compatibility, making disposable options increasingly preferred in robotic-assisted procedures.

The rapid growth of Ambulatory Surgical Centers (ASCs) in the U.S. fuels demand for disposable surgical devices, particularly trocars. Focused on maximizing efficiency, maintaining sterility, and reducing costs, ASCs find single-use trocars to be a practical solution that aligns with their workflow. These centers handle a high volume of outpatient procedures, such as hernia repairs and gynecological surgeries, where disposable trocars help reduce turnaround times and eliminate the need for complex sterilization processes, ultimately enhancing operational throughput and patient safety.

The rising prevalence of cancer in the U.S. is a significant driver of the disposable trocars market, as many oncologic procedures, such as laparoscopic colectomies, hysterectomies, and prostatectomies, require minimally invasive surgical access. With cancer cases increasing annually, particularly among the aging population, the demand for safe, sterile, and efficient surgical tools is growing. Disposable trocars are widely used in these procedures because they reduce the risk of infection, support complex surgical navigation, and align with hospital protocols for oncology care. Their compatibility with robotic-assisted systems and advanced imaging makes them ideal for cancer surgeries requiring high precision and control.

Innovation in trocar technology, such as bladeless tips, optical entry systems, radially expandable cannulas, and universal sealing valves, has significantly improved safety, precision, and surgeon ergonomics. These advancements contribute to better procedural outcomes and are increasingly adopted by leading hospitals across the U.S. For instance, a major medical device company's widely used bladeless trocar design has gained popularity for its ability to minimize insertion force and reduce tissue trauma, making it a preferred option in both laparoscopic and robotic-assisted surgeries.

U.S Disposable Trocars Market Report Segmentation

This report forecasts revenue growth and provides an analysis on the latest trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the U.S. disposable trocars market report on the basis of application, and

tip:

Tip Outlook (Revenue, USD Million, 2021 - 2033)

Bladeless Trocars

Optical Trocars

Blunt Trocars

Bladed Trocars

Application Outlook (Revenue, USD Million, 2021 - 2033)

General Surgery

Gynecological Surgery

Urological Surgery

Pediatric Surgery

Other Surgeries

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