

North America Micro-Surgical Robot Market Forecast to 2028 - COVID-19 Impact and Regional Analysis - by Component (Instruments and Accessories), Application (Urology Surgery, Plastic Reconstructive Surgery, Ophthalmic Surgery, Neurosurgery, Lymphatic Surgery, ENT Surgery, and Other), and End User (Hospitals and Clinics, Ambulatory Surgical Centers, Research Institutes, and Others)

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Report description:

The North America micro-surgical robot market is expected to grow from US\$ 552.33 million in 2022 to US\$ 1,244.69 million by 2028; it is estimated to grow at a CAGR of 12.3% during the projected period.

The introduction of robotic surgery is the most recent advancement in liposuction. The surgeon controls the treatments from a master console, while the robotic patient cart conducts the procedures with greater ease and precision than laparoscopy. Because of its 3D vision and accurate, intuitive multi-range Instruments, robotic surgery for obesity has distinct advantages over traditional laparoscopic surgery, providing patients with increased safety. It also aids in the improvement of suturing abilities and the reduction of post-operative pain and recovery time. It is recommended even for hugely obese individuals weighing more than 250 kg, a procedure that is more demanding and difficult to execute by laparoscopy. Similarly, as per an article published in 2020 on the comparison between the surgical outcomes of integrated robotic surgery and conventional laparoscopic surgery for distal gastrectomy, the surgical success rate in the integrated robotic distal gastrectomy (IRDG) group was 98.0%, significantly higher than the success rate in conventional laparoscopic distal gastrectomy (CLDG) group, i.e., 89.5%. Although both groups had similar rates of in-patient and out-patient problems, the readmission rate of the IRDG group was much lower than the CLDG group. Further, robotic surgeries aid better visualization capabilities that provide surgeons a greater view of the work area and allow them to see microscopic details by using high-definition cameras. These systems have more dexterity than the human hand, and their ability to rotate 360° and navigate better allows surgeons to reach hard-to-access areas. The VITOM is an HD exoscopic video

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system with optical lenses that is used for spine surgery and paediatric surgery. The optical magnification in the system ranges from 16x to 25x. The microsurgeon can view the image from the VITOM system just below the main 3D robot camera view using the TilePro imaging software in the surgeon interface. Thus, robotic microsurgeries ensure greater accuracy, repeatability, control, and efficiency. Along with these benefits, the growing desire for better, faster healthcare services propels the micro-surgical robot market growth.

With the new features and technologies, vendors can attract new customers and expand their footprints in emerging markets. This factor is likely to drive the North America micro-surgical robot market. The North America micro-surgical robot market is expected to grow at a stellar CAGR during the forecast period.

North America Micro-Surgical Robot Market Revenue and Forecast to 2028 (US\$ Million)

North America Micro-Surgical Robot Market Segmentation

The North America micro-surgical robot market is segmented based on component, application, end user, and country. Based on component, the North America micro-surgical robot market is divided into instruments and accessories. The instruments segment dominated the North America micro-surgical robot market in 2022. Based on application, the North America micro-surgical robot market is categorized into urology surgery, plastic reconstructive surgery, ophthalmic surgery, neurosurgery, lymphatic surgery, ENT surgery, and other. The urology surgery segment dominated the North America micro-surgical robot market in 2022. Based on end user, the North America micro-surgical robot market is categorized into hospitals and clinics, ambulatory surgical centers, research institutes, and others. The hospitals and clinics segment dominated the North America micro-surgical robot market in 2022. Based on country, the North America micro-surgical robot market is segmented into US, Canada, and Mexico. The US dominated the North America micro-surgical robot market in 2022.

Microsure B.V; Stryker Corporation; Intuitive Surgical; Medtronic; Galen Robotics, Inc.; Ethicon (Johnson & Johnson Services, Inc.); Asensus Surgical, Inc.; Zimmer Biomet; Titan Medical Inc. by Altair are among the leading companies in the North America micro-surgical robot market.

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