

Endoscopic Vessel Harvesting System Market: Current Analysis and Forecast (2025-2033)

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Abstracts

An Endoscopic Vessel Harvesting (EVH) System is a surgical system of minimal invasiveness that is employed to harvest blood vessels (generally the saphenous vein or radial artery) to be utilized in coronary artery bypass graft (CABG) and other vascular surgeries. This system is done using the small incision, endoscope, and special instruments in order to dissect and remove the vessel, leaving the surrounding tissue intact. EVH systems cause less trauma in surgery, postoperative pain, scarring, and infection compared to other open harvesting methods. They also help in the accelerated healing of the patients, reduce inpatient care, and enhance cosmetic results without compromising on the quality of the grafts and efficiency of the procedure.

The Endoscopic Vessel Harvesting System market is set to show a growth rate of about 4.2% during the forecast period (2025-2033F). The Endoscopic Vessel Harvesting System market is on the rise because of the increase in cardiovascular diseases and the number of coronary artery bypass graft surgeries in the world. Minimally invasive procedures are becoming increasingly popular within the surgery and hospital sector to minimize patient complications, postoperative pain, and infection. EVH systems have reduced recovery times, provide better cosmetic results, and reduce total healthcare expenses, which are appealing to healthcare providers. Technological advancements, such as improved visualization, ergonomic design, and enhanced vessel integrity, further encourage adoption. Also, increasing awareness of clinicians and patients, and the increasing care infrastructure in emerging economies, are increasing the pace of growth in the market.

Based on the product category, the market is categorized into disposable and reusable. Among these, the largest market share in the endoscopic vessel harvesting system market is occupied by the disposable segment since it is

widely used in preventing cross-contamination and hospital-acquired infections. Compared to alternative products, disposable products save more time in the process of sterilization, maintain consistent performance, and adhere to high regulatory and infection-control measures, which are valued in hospitals and surgical centers. However, the reusable segment is expected to witness the fastest growth in the coming years due to the cost-effectiveness in the long run and the sustainability program that will help to decrease the amount of medical waste. The introduction of more durable materials and advanced technologies is also contributing to greater adoption of reusable EVH systems, particularly in larger healthcare settings.

Based on the application category, the market is segmented into coronary artery disease and peripheral artery disease. Among these, the segment with the largest market share of the Endoscopic Vessel Harvesting System is the coronary artery disease segment since EVH is predominantly applied in the field of coronary artery bypass grafts and is mostly utilized where advanced coronary artery disease is present. The demand is high due to the prevalence of CAD in the world, coupled with established clinical guidelines that support surgical intervention. However, the Peripheral Artery Disease segment is expected to grow significantly in the coming years as the number of patients diagnosed with the condition increases, the population grows older, and the use of minimally invasive vascular procedures continues to expand.

Based on the end-user category, the market is segmented into hospitals, ambulatory surgical centers, and others. Among these, hospitals occupy the largest market share of the endoscopic vessel harvesting system market because of the large number of coronary artery bypasses and complicated cardiovascular surgeries done in hospitals. They have more advanced infrastructure, cardiac surgeons, and a higher patient inflow, and this favorable environment contributes to greater EVH system adoption. However, ambulatory surgery centers will expand at a high rate in the future due to the trend of minimally invasive surgery, reduction of treatment expenses, reduced hospitalization, and ever-increasing patients who are seeking outpatient surgery.

For a better understanding of the demand of Endoscopic Vessel Harvesting System, the market is analyzed based on its worldwide adoption in countries such as North America (U.S., Canada, and the Rest of North America), Europe (Germany, U.K., France, Spain, Italy, Rest of Europe), Asia-Pacific (China, Japan, India, and the Rest of Asia-Pacific), and Rest of World. Among these,

North America controls the largest market share in the Endoscopic Vessel Harvesting System market because it has the most popular cases of cardiovascular diseases, well-developed healthcare systems, and the best use of advanced technologies in the minimally invasive surgical setup. Large medical device manufacturers, good reimbursement policies, and surgeons' awareness are another benefit that contributes to the market dominance in this area. However, there will be enormous growth in the Asia-Pacific (APAC) region due to the aging population, the rising rate of coronary artery disease, the enhancement of the healthcare systems, the increase in healthcare spending, and the adoption of advanced surgical procedures.

Some major players running in the market include Terumo Corporation, Getinge, Boston Scientific Corporation, Zimmer Biomet, Inc., AVOMA GROUP, CardioPrecision Ltd., Olympus Corporation, KARL STORZ, Medtronic Plc, and B. Braun Melsungen AG.

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