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Powered Surgical Instruments Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 – 2032

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Abstracts

The Global Powered Surgical Instruments Market reached an estimated USD 2.6 billion in 2023 and is anticipated to grow at a 4% CAGR from 2024 to 2032. These devices, either electrically or pneumatically operated, are designed to enhance precision and control in surgical procedures by powering tasks like cutting, drilling, and fluid evacuation. By leveraging compressed air or electricity, powered surgical instruments facilitate efficient, precise handling of bone and cartilage during surgeries. Technological advancements, including robotics and computer-assisted systems, are enhancing the functionality of these instruments, enabling surgeons to perform intricate procedures with improved accuracy. This trend is accelerating the adoption of powered surgical tools as healthcare providers prioritize outcomes and patient safety.

Hospitals and surgical centers are increasingly investing in these advanced tools to enhance procedural accuracy and consistency, minimizing the potential for human error. These instruments are also designed for ease of sterilization and maintenance, ensuring high hygiene standards and lowering infection risks. The market for powered surgical instruments is categorized by product type into handpieces and accessories. Handpieces include drill, reamer, saw systems, staplers, and shavers, while accessories are divided into surgical and electrical components.

The handpieces segment is set to reach USD 2.3 billion by 2032, driven by the growing prevalence of minimally invasive surgeries that require precision tools. These handpieces provide surgeons with enhanced control, particularly useful for delicate operations. By application, the market spans cardiothoracic, orthopedic, cardiovascular, neurosurgery, ENT, plastic, and other surgical areas. Orthopedic surgery leads the segment, owing to the increasing cases of musculoskeletal conditions, such as

osteoarthritis and osteoporosis, which are driving demand for orthopedic surgeries.

The need for effective and accurate surgical interventions has thus contributed to orthopedic surgery maintaining the largest share within the powered surgical instruments market. End-use segmentation divides the market into hospitals, ambulatory surgical centers (ASCs), clinics, and other facilities. The hospital segment, valued at USD 1.6 billion in 2023, is seeing strong growth as healthcare infrastructure expands worldwide. Government and private sector investments in new hospitals and surgical facilities, particularly in emerging economies, are fueling demand for advanced surgical equipment, including powered instruments.

In North America, the powered surgical instruments market was valued at USD 1.2 billion in 2023, with a projected 4.1% CAGR through the forecast period. High rates of chronic conditions like cardiovascular disease, cancer, and osteoarthritis are increasing the demand for surgical interventions, sustaining the need for these advanced tools. With a robust healthcare system and an aging population, North America remains a key market for powered surgical instruments, underpinned by demand for high-precision tools to meet complex surgical needs.

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