

# Surgical Energy Instruments/Electrosurgical Devices - Market Insights, Competitive Landscape and Market Forecast-2026

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## Abstracts

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Electrosurgical Devices Market By Product Type (Electrosurgical Generators, Electrosurgical Instruments [Electrosurgical Pencils, Electrosurgical Electrodes, Electrosurgical Knife, Electrosurgical Forceps, Suction Coagulators, Others], Electrosurgical Accessories), By Method (Monopolar, Bipolar), By Application (General Surgery, Orthopaedic Surgery, Gynaecology Surgery, Cardiovascular Surgery, Cosmetic Surgery, Neurosurgery, Others), By End-User (Hospitals, Ambulatory Surgical Centres, Others), by geography, is expected to grow at a significant CAGR forecast till 2026 due to the increasing number of surgeries worldwide because of growing chronic diseases and shifting preferences for minimally invasive surgeries over conventional surgeries.

The global electrosurgical devices market was valued at USD 6.18 billion in 2020, growing at a CAGR of 5.69% during the forecast period from 2021 to 2026, to reach USD 8.61 billion by 2026. The growing demand for electrosurgical devices is predominantly attributed to the rising prevalence of various chronic diseases leading to an increase in surgical procedures across the globe. In addition, shifting preferences for minimally invasive surgeries, recent product approvals, and technological advancement in the product arena, among others are some of the factors responsible for global electrosurgical market growth during the forecasted period.

Electrosurgical Devices Market Dynamics:

The rise in demand for electrosurgical devices is owing to the growing prevalence of

chronic disorders such as cardiovascular disorder, neurological disorder, urological disorders, among others which require surgical intervention as one of their treatment regimens. According to the Global Surgery Foundation 2021 reports, about 30% of the global burden of disease is caused by conditions that can be treated by surgery.

Moreover, the growing number of cosmetic surgeries across the globe could also fuel the demand for electrosurgery devices. This is because electrocautery, a kind of electrosurgery is typically applied in superficial situations encountered by dermatologists, ophthalmologists, plastic surgeons, urologists, and other related specialties. As per the International Society of Aesthetic Plastic Surgery 2019 global statistics, approximately 11,363,569 surgical procedures were performed by plastic surgeons.

Additionally, the recent product approvals of various electrosurgical devices are also anticipated to fuel the demand for these devices by surgeons. Thereby surging the global market for electrosurgical devices. Recently, in May 2019, New Deantronics Taiwan Ltd received FDA clearance for its electrosurgical cutting and coagulation device and accessories.

Hence, all the above-mentioned factors will contribute to the electrosurgical devices market during the forecasted period.

However, certain factors such as the dearth of skilled professionals and strict regulatory approval process are some factors likely to hinder the electrosurgical devices market growth.

Additionally, the sudden outbreak of COVID-19 has impacted the global market for electrosurgical devices during the early phases due to the establishment of stringent guidelines by the countries to curb disease transmission. Furthermore, halted elective surgeries, nationwide lockdown, disruption in demand, and supply chain due to restrictions in geographical borders also lead to slow market growth. However, owing to the approval and administration of numerous COVID-19 vaccines worldwide in the second half of 2020, there was a significant improvement in the resumption of activities across various domains including healthcare services and manufacturing facilities, among others, thereby paving the way for a sound period of recovery for the electrosurgical devices market.

**Electrosurgical Devices Market Segment Analysis:**

Electrosurgical Devices Market By Product Type (Electrosurgical Generators, Electrosurgical Instruments [Electrosurgical Pencils, Electrosurgical Electrodes, Electrosurgical Knife, Electrosurgical Forceps, Suction Coagulators, Others], Electrosurgical Accessories), By Method (Monopolar, Bipolar), By Application (General Surgery, Orthopaedic Surgery, Gynaecology Surgery, Cardiovascular Surgery, Cosmetic Surgery, Neurosurgery, Others), By End-User (Hospitals, Ambulatory Surgical Centres, Others), and By Geography (North America, Europe, Asia-Pacific, and Rest of the World).

In the electrosurgical devices product type segment, the electrosurgical instruments are further sub-segmented into electrosurgical pencils, electrosurgical electrodes, electrosurgical knife, electrosurgical forceps, suction coagulators, and others are projected to hold a significant market share during the forthcoming years. This is owing to the wide availability of the products in the market. Moreover, excessive usage volume of disposable and reusable electrosurgical instruments will also contribute to the segmental growth of electrosurgical devices. Additionally, the introduction of technologically advanced electrosurgical instruments is also a factor associated with the market growth of the segment.

Also, approval for devices such as electrosurgical electrodes, electrosurgical pencils is projected to soar the electrosurgical instruments market. For instance, recently in June 2020, Modern Medical Equipment Manufacturing, LTD. received approval from the US FDA for its Single-Use Electrosurgical pencil with the non-coated and non-stick electrode (Nonsterile and sterile).

North America is expected to dominate the Overall Electrosurgical Devices Market:

Among all the regions, North America is expected to occupy a major share in the overall electrosurgical devices market during the forthcoming years. This domination is due to the growing prevalence of chronic indication in the region, rise in aesthetic surgeries. In addition, the high adoption rate of advanced technology and the presence of skilled professionals are expected to drive market growth during the forecast period.

Further, in the United States, FDA issuance of updated guidance on 510(k) submissions for electrosurgical devices in 2020, advising manufacturers on how to prepare the 510(k) submissions for electrosurgical cutting and coagulation devices and accessories used in general surgery is expected to drive the electrosurgical devices market in the region.

In addition, growing surgical procedures for altering cosmetic appearances in the region are also expected to bolster the electrosurgical devices market. For instance, as per the data published by the International Society of Aesthetic Plastic Surgery in the year 2019, a total of 1,351,917 surgical procedures were done using electrosurgical devices.

Moreover, the presence of key market players such as Medtronic, Johnson & Johnson, and CONMED Corporation, Apyx Medical Corporation, among others actively manufacturing electrosurgical devices are also expected to bolster the electrosurgical devices market in the region.

Also, approval of products by the FDA regulatory authority will augment the market for electrosurgical devices in the region. For instance, in October 2019, Apyx Medical Corporation received 510(k) Clearance for the Apyx Plasma/RF Handpiece a sterile, single-use electrosurgical (monopolar) device intended to be used along with compatible generators for the percutaneous delivery of radiofrequency energy and/or helium plasma for cutting, coagulation and ablation of soft tissue.

Thus, all the above-mentioned factors are likely to propel the market for electrosurgical devices in the region.

Additionally, the Asia-pacific region has future potential for the electrosurgical devices market. This is due to the rising number of geriatric population and age-related surgeries performed. Moreover, companies focused on developing advanced next-generation integrated electrosurgery system is also expected to fuel the market for electrosurgical devices. Also, improving the healthcare system, increase in disposable income, and others are also projected to drive the market for electrosurgical devices in the region.

#### Electrosurgical Devices Market Key Players:

Some of the key market players operating in the Electrosurgical Devices market include B. Braun Melsungen AG, ConMed Corporation, Olympus Corporation, Apyx Medical Corporation, Smith & Nephew, Medtronic, Johnson & Johnson, Erbe Elektromedizin GmbH, KLS Martin Group, Boston Scientific Corporation, BOWA-electronic GmbH & Co. KG, Modern Medical., Kirwan Surgical Products, LLC., Utah Medical Products, Inc., Hangzhou AGS MedTech Co., Ltd., New Deantronics Taiwan Ltd, Parkell, Inc., Surgical Holdings., Bissinger Medizintechnik, CIMPAX, and others.

## RECENT DEVELOPMENTAL ACTIVITIES IN THE ELECTROSURGICAL DEVICES MARKET:

In December 2020, Boston Scientific Corporation got FDA approval for its ORISE ProKnife designed to be used with endoscopes and electro-surgical units to cut tissue within the gastrointestinal tract using high-frequency current.

In July 2020, Micro-Tech (Nanjing) Co., Ltd. received FDA approval for its single-use electro-surgical knife designed to be used with endoscopes and electro-surgical for dissection, elevation, irrigation, and others.

In May 2020, Hangzhou AGS MedTech Co., Ltd. received FDA clearance for its electro-surgical system comprising electro-surgical generator with bipolar polypectomy snare combination and single-use electro-surgical knife combination accessories intended to deliver High Frequency (HF) electrical current for the cutting and/or coagulation of tissue.

### Key Takeaways from the Electro-surgical Devices Market Report Study

? Market size analysis for current market size (2020), and market forecast for 5 years (2021-2026)

? The effect of the COVID-19 pandemic on this market is significant. To capture and analyze suitable indicators, our experts are closely watching the Electro-surgical Devices market.

? Top key product/services/technology developments, merger, acquisition, partnership, joint venture happened for last 3 years

? Key companies dominating the Global Electro-surgical Devices Market.

? Various opportunities available for the other competitor in the Electro-surgical Devices Market space.

? What are the top-performing segments in 2020? How these segments will perform in 2026.

? Which are the top-performing regions and countries in the current market scenario?

? Which are the regions and countries where companies should have concentrated on opportunities for Electrosurgical Devices market growth in the coming future?

Target Audience who can be benefited from the Electrosurgical Devices Market Report Study

? Electrosurgical Devices providers

? Research organizations and consulting companies

? Electrosurgical Devices-related organization, association, forum, and other alliances

? Government and corporate offices

? Start-up companies, venture capitalists, and private equity firms

? Distributors and Traders in Electrosurgical Devices

? Various End-users want to know more about the Electrosurgical Devices Market and the latest technological developments in the Electrosurgical Devices market.

Frequently Asked Questions for the Electrosurgical Devices Market:

1. What are Electrosurgical Devices?

An electrosurgical device is a surgical device used to cut and destroy tissue through desiccation, and control bleeding (hemostasis) by clotting blood. This is achieved using a powerful high-frequency generator that generates a radio frequency (RF) spark between the probe and the surgical site, which causes localized heating and tissue damage. It consists of an electrosurgical generator, a sensor, and forceps. The electrosurgical generator operates in two modes. In monopolar mode, the active electrode focuses the current towards the working field and the scattering (return) electrode directs the current away from the patient. In bipolar mode, both the active and return electrodes are at the surgical site.

2. What is the market for Global Electrosurgical Devices?

The global Electrosurgical Devices Market was valued at USD 6.18 billion in 2020,

growing at a CAGR of 5.69% during the forecast period from 2021 to 2026 to reach USD 8.61 billion by 2026.

### 3. What are the drivers for the Global Electrosurgical Devices?

The major factors driving the demand for Electrosurgical Devices are rising surgical procedures across the globe, growing adoption of minimally invasive surgeries, technological advancement, increase in product approvals, and growing prevalence of chronic disorders, among others.

### 4. What are the key players operating in Global Electrosurgical Devices?

Some of the key market players operating in the Electrosurgical Devices market include B. Braun Melsungen AG, ConMed Corporation, Olympus Corporation, Apyx Medical Corporation, Smith & Nephew, Medtronic, Johnson & Johnson, Erbe Elektromedizin GmbH, KLS Martin Group, BOWA-electronic GmbH & Co. KG, Modern Medical., Kirwan Surgical Products, LLC., Utah Medical Products, Inc., Hangzhou AGS MedTech Co., Ltd., New Deantronics Taiwan Ltd, Parkell, Inc., Surgical Holdings., Bissinger Medizintechnik, CIMPAX, and others.

### 5. Which region has the highest share in the Electrosurgical Devices market?

Among all the regions, North America is expected to occupy a major share in the overall electrosurgical devices market during the forthcoming years, 2021-2026. This domination is due to the growing prevalence of chronic indication in the region, rise in aesthetic surgeries. In addition, the high adoption rate of advanced technology and the presence of skilled professionals are expected to drive market growth during the forecast period.

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