

# Deep Brain Stimulation Devices Market Insights, Competitive Landscape and Market Forecast–2026

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## Abstracts

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Deep Brain Stimulation Devices Market By Product Type (Single Channel And Dual Channel), By Battery Type (Rechargeable And Non-Rechargeable), By Application (Parkinson's Disease, Epilepsy, Obsessive Compulsive Disorder, Dystonia, And Others), By End User (Hospitals And Specialty Clinics), and by geography is expected to grow at a steady CAGR forecast till 2026 owing to the rising prevalence of parkinson's disease and epilepsy.

Global Deep Brain Stimulation Devices (DBS) Market was valued at USD 1.19 billion in 2020, growing at a CAGR of 10.39% during the forecast period from 2021 to 2026 to reach USD 2.15 billion by 2026. The demand for deep brain stimulation devices is witnessing growth owing to the growing prevalence of movement disorders such as Parkinson's disease, expansion of disease indications for DBS therapy, rising geriatric population, and increasing research and development activities in product development are expected to aid in the growing demand for DBS devices leading to the growth of the DBS devices market during the forecast period.

Deep Brain Stimulation Devices Market Dynamics:

The DBS devices market is witnessing an increase in market revenue owing to the rising prevalence of various movement disorders such as Parkinson's disease, dystonia and tremors among others. According to the data provided by the International Parkinson and Movement Disorder Society, it was estimated that in 2020, approximately 9.4 million of the global population was suffering from Parkinson's disease. Parkinson's disease is associated with a variety of clinical manifestations ranging from

tremors and postural instability to rigidity in movement and lack of balance. Deep brain stimulation has been reported to provide beneficial outcomes in the treatment of Parkinson's disease, wherein targeted stimulation of neurons by DBS devices help in the alleviation of symptoms. Therefore, the demand for DBS devices is set to increase due to the rising number of Parkinson's disease patients, thereby projecting positive growth for the deep brain stimulation devices market during the forecast period (2021-2026).

Another key factor leading to the increased demand for the DBS devices is the increase in the prevalent population of epilepsy patients across the globe. As per the data provided by the World Health Organization, in 2019, near about 50 million people across the world had epilepsy making it one of the most common neurological diseases in the world. Epilepsy is characterized by recurrent seizures of varying lengths. Deep brain stimulation has been reported to be beneficial for epilepsy patients who have not been benefitted from medications and do not qualify for epilepsy surgery. Therefore, the rising epileptic population is also expected to drive the demand for DBS devices, which in turn would result in the growth of the deep brain stimulation devices market.

Along with the aforementioned parameters, the rising geriatric population, expansion of indications to be treated with DBS devices and the highly active research and development area for the deep brain stimulation products are some of the other key contributing factors which will stimulate the deep brain stimulation systems market positively during the forecast period.

However, complications associated with the DBS devices placement surgery, limited options of DBS systems for end users in the market may prove to be certain restraints to the DBS devices market growth.

In addition to the previously mentioned factors, the deep brain stimulation market witnessed a period of temporary setback due to the imposing of the lockdown restrictions as necessary measures to contain the COVID-19 spread. One of the major steps during this was the suspension of numerous elective procedures and outpatient visits which reduced the demand for DBS devices in the market, thereby limiting the market growth for a short time. Nevertheless, the market for deep brain stimulation devices is on the period of recovery with the resumption of activities across various domains including healthcare services owing to the approval and administration of numerous COVID-19 vaccines across the globe, thereby presenting a positive future outlook for the DBS devices market during the forecast period.

## Deep Brain Stimulation Devices Market Segment Analysis:

Deep Brain Stimulation Devices Market by Product Type (Single Channel and Dual Channel), by Battery Type (Rechargeable and Non-Rechargeable), by Application (Parkinson's Disease, Epilepsy, Obsessive Compulsive Disorder, Dystonia, and Others), by End User (Hospitals and Specialty Clinics), and by Geography (North America, Europe, Asia-Pacific, and Rest of the World)

In the product type segment of the deep brain stimulation devices market, the dual channel deep brain stimulation systems are estimated to account for the prominent market share during the forecast period. This can be ascribed to the fact that dual channel neurostimulators are equipped with two separate DBS leads which enable the devices to provide bilateral therapy to patients. The placement of dual channel DBS systems require fewer incisions and less tunneling of extensions which prove to be advantageous over single-channel DBS systems. Thus, the factors mentioned above are going to influence the demand for dual channel DBS devices positively during the forecast period, thereby contributing in the overall growth of the deep brain stimulation devices market during the forecast period.

North America is expected to dominate the overall Deep Brain Stimulation Devices Market:

Among all the regions, North America is expected to account for the significant market share in the DBS devices market. North America is predicted to account for the dominant market share because of the high prevalence of movement disorders and other indications such as obsessive compulsive disorder (OCD), increasing awareness regarding such diseases and their possible treatment methods, rising population of the elderly as well as rising government initiatives for creating awareness regarding movement disorders and treatment are expected to aid in the growth of the North America deep brain stimulation devices market. Furthermore, high disposable income, sophisticated healthcare infrastructure, new product approvals, and advancements in product development also propelled the market growth in this region.

The North American DBS devices market is witnessing an upward trend due to the rising prevalence of obsessive compulsive disorder among other factors. As per the data provided by the Anxiety & Depression Association of America, in 2020, near about 2.2 million people were diagnosed with OCD in the United States. It has been reported in many studies that deep brain stimulation has proven to be beneficial in alleviating OCD symptoms in patients. Therefore, the increase in patient population of OCD in the

United States is expected to aid in the growing demand for DBS devices, which in turn is expected to drive the growth of the United States deep brain stimulation devices market.

Besides United States, the demand for DBS devices is set to increase in other North American countries such as Canada also due to the increase in patient population of movement disorders such as Parkinson's disease. According to the data provided by a Canada-based organization-Parkinson Canada, in 2020, approximately 100,000 people were living with PD in the country. The data further stated that from the current average of 25 Canadians being diagnosed with Parkinson's disease each day, the average is expected to rise to 50 people per day by 2031. Therefore, the estimates regarding the increase in patient population of PD in Canada would lead to the increase in demand for deep brain stimulation devices, thereby providing a positive market outlook for the DBS systems market during the forecast period.

Along with the factors mentioned above, the conducive environment for product development and launches in the country further motivates the market players to enhance their presence in North America. For instance, in 2018, the US Food and Drug Administration approved DBS therapy for epilepsy thereby expanding the scope of indications, which in turn is expected to contribute to the increase in product demand thereby supporting the growth of the North America DBS devices market during the forecast period.

#### Deep Brain Stimulation Devices Market Key Players:

Some of the key market players operating in the DBS devices market includes Abbott, Medtronic, Boston Scientific Corporation, ALEVA NEUROTHERAPEUTICS SA., Newronika S.p.A., Beijing PINS Medical Co., Ltd. and others.

#### Recent Developmental Activities in Deep Brain Stimulation Devices Market:

In June 2021, Medtronic received the product approval by the US Food and Drug Administration for First-of-its-Kind SenSight™ Directional Lead System for DBS Therapy.

In January 2021, Boston Scientific received the product approval from the US FDA for their fourth generation Vercise Genus Deep Brain Stimulation (DBS) System used in the treatment of symptoms associated with advanced Parkinson's disease.

In September 2020, Boston Scientific received the CE mark approval from the Vercise

Genus Deep Brain Stimulation (DBS) System used in the treatment of symptoms associated with advanced Parkinson's disease.

Key Takeaways from the Deep Brain Stimulation Devices Market Report Study

Market size analysis for current DBS devices 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 DBS devices market.

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

Key companies dominating the global DBS devices market.

Various opportunities available for the other competitor in the DBS devices market space.

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

Which is the top-performing regions and countries in the current DBS devices market scenario?

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

Target Audience who can be benefited from this Deep Brain Stimulation Devices Market Report Study

Deep Brain Stimulation Devices products providers

Research organizations and consulting companies

Deep Brain Stimulation Devices-related organization, association, forum, and other alliances

Government and corporate offices

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

Distributors and Traders dealing in DBS devices

Various End-users who want to know more about the DBS devices market and latest technological developments in the DBS devices market.

Frequently Asked Questions for Deep Brain Stimulation Devices Market:

### 1. What is a Deep Brain Stimulation Device?

Deep brain stimulation (DBS) is a device that sends electrical signals to brain areas responsible for body movement. Electrodes are placed deep in the brain and are connected to a stimulator device. The device design is identical to that of a heart pacemaker.

### 2. What is the market for Global Deep Brain Stimulation Devices?

Global Deep Brain Stimulation Devices (DBS) Market was valued at USD 1.19 billion in 2020, growing at a CAGR of 10.39% during the forecast period from 2021 to 2026 to reach USD 2.15 billion by 2026.

### 3. What are the drivers for Global Deep Brain Stimulation Devices Market?

The demand for deep brain stimulation devices is witnessing growth due to the growing prevalence of movement disorders such as Parkinson's disease, expansion of disease indications for DBS therapy, rising geriatric population, and increasing research and development activities in product development are expected to aid in the growing demand for DBS devices leading to the growth of the DBS devices market in the forecast period.

### 4. Who are the key players operating in Global Deep Brain Stimulation Devices Market?

Some of the key market players operating in the Global DBS systems market are Abbott, Medtronic, Boston Scientific Corporation, ALEVA NEUROTHERAPEUTICS SA., Newronika S.p.A., Beijing PINS Medical Co., Ltd. and others.

### 5. Which region has the highest share in Deep Brain Stimulation Devices market?

Among all the regions, North America is expected to account for the significant market share in the DBS devices market. North America is predicted to account for the dominant market share because of the high prevalence of movement disorders and other indications such as obsessive compulsive disorder (OCD), increasing awareness regarding such diseases and their possible treatment methods, rising population of the elderly as well as rising government initiatives for creating awareness regarding movement disorders and treatment are expected to aid in the growth of the North America deep brain stimulation devices market. Furthermore, high disposable income, sophisticated healthcare infrastructure, new product approvals, and advancements in product development also propelled the market growth in this region.

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