

# **Neurosurgery Surgical Power Tools Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application, Product Type**

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## **Abstracts**

### **Neurosurgery Surgical Power Tools Market Summary**

#### **Introduction**

Neurosurgery surgical power tools are precision instruments used in procedures to treat brain tumors (about 1 million diagnosed in the U.S. from 2015-2019), traumatic brain injuries (over 60,000 U.S. deaths annually), and strokes, requiring intricate cranial and spinal interventions. The market is fueled by rising neurological conditions, an aging population, and a shift toward minimally invasive surgeries (around 30 million annually), which halve recovery times. Innovations like AI feedback and high-definition navigation enhance surgical accuracy. The global market is projected to reach between USD 710 million and USD 1,100 million in 2025, with a CAGR of 3.2% to 5.1% through 2030.

#### **Regional Analysis**

**North America:** The U.S. leads with high neurosurgery volumes, while Canada focuses on trauma care.

**Europe:** Germany, France, and the UK drive demand due to advanced neurosurgery infrastructure.

**Asia Pacific:** China and India see growth from rising stroke cases, while Japan emphasizes precision surgery.

Rest of the World: Brazil expands neurosurgical capabilities, and the Middle East invests in advanced tools.

### Application Analysis

Hospitals: Expected growth of 3.0%-4.9%, driven by complex procedures. Trends focus on integrated systems.

Ambulatory Surgical Centers: Projected growth of 3.4%-5.3%, linked to outpatient surgeries. Developments emphasize portability.

Neurosurgery Clinics: Anticipated growth of 3.2%-5.1%, suited for specialized care. Advances prioritize precision.

### Type Analysis

Drill: Expected growth of 3.3%-5.2%, valued for cranial access. Trends highlight depth measurement.

Saw: Projected growth of 3.1%-5.0%, key for bone cutting. Advances focus on safety.

Reamer: Anticipated growth of 3.0%-4.9%, suited for shaping. Innovations emphasize speed.

Others: Expected growth of 2.9%-4.8%, covering niche tools. Trends lean toward customization.

### Key Market Players

Key firms include Stryker, launching CD NXT; Medtronic, integrating Midas Rex; B. Braun, enhancing neurosurgery tools; Zimmer Biomet, focusing on precision; Johnson & Johnson, advancing with UNIUM; AYGUN, offering surgical solutions; adeor medical, partnering for drills; KARL STORZ, supporting endoscopy; De Soutter Medical, developing power tools; and ACRA-CUT, targeting cranial instruments.

### Porter's Five Forces Analysis

? Threat of New Entrants: Moderate, due to high regulatory and expertise barriers,

though innovative firms can enter.

? Threat of Substitutes: Low, as power tools are essential for neurosurgery with no direct alternatives.

? Bargaining Power of Buyers: Moderate, with hospitals seeking reliable, cost-effective tools, though specialized needs limit leverage.

? Bargaining Power of Suppliers: Low, with multiple component providers.

? Competitive Rivalry: High, with competition on precision, AI integration, and safety features.

## Market Opportunities and Challenges

### Opportunities:

? Brain tumors, TBIs, and strokes drive demand.

? Aging populations (2.1 billion over 60 by 2050) increase neurological needs, while minimally invasive surgeries (30 million annually) favor advanced tools.

? Innovations like AI and navigation systems enhance outcomes, and surgeon training boosts adoption.

### Challenges:

? High costs of advanced tools limit access in low-income regions.

? Regulatory delays for new technologies slow growth.

? Shortages of neurosurgeons in rural areas restrict market expansion.

## Market News

? In March 2023, Stryker launched its CD NXT System, offering real-time depth measurement for drilling.

? In August 2021, ClearPoint Neuro, Inc. partnered with adeor medical AG for

neurosurgical drill solutions.

? In December 2020, Medtronic received FDA approval for Midas Rex drills with Mazor Robotic Guidance.

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