

# Europe Robotic Neurosurgery Market: Analysis and Forecast, 2025-2035

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## Abstracts

This report can be delivered in 2 working days.

### Introduction to Europe Robotic Neurosurgery Market

The Europe robotic neurosurgery market is projected to reach \$585.3 million by 2035 and estimated \$93.1 million in 2024, growing at a CAGR of 17.83% during the forecast period 2025-2035. The increasing prevalence of neurological disorders and the resulting need for sophisticated surgical techniques are major factors driving the growth of the robotic neurosurgery market in Asia-Pacific. Advances in AI-enabled guidance, real-time imagery integration, and precision robots are increasing application areas and enhancing results. Adoption is accelerating due to a regional shift towards minimally invasive techniques that reduce complications and shorten recovery times.

### Market Introduction

The market for robotic neurosurgery in Europe is expected to increase steadily as medical professionals use more sophisticated technology to treat the growing number of neurological conditions. Surgeons can execute intricate treatments like deep brain stimulation (DBS), epilepsy mapping, and tumour resections with less tissue damage and more accuracy because to robotic systems' unmatched precision. Europe's well-established healthcare system, favourable payment policies, and increasing focus on minimally invasive procedures have all contributed to the continent's thriving industry.

The region's ageing population and the rise in neurological illnesses that goes along with it are major factors driving the demand for advanced surgical procedures. In addition to improving patient outcomes and reducing recovery periods, technological

advancements like haptic feedback, real-time imaging integration, and AI-enhanced navigation are expanding the range of robotic applications. Prominent regional and international companies, including as Monteris Medical, Renishaw, Zimmer Biomet, and Medtronic, are actively working with academic institutions to improve workflow integration and demonstrate clinical efficacy.

High acquisition and maintenance costs, strict EU Medical Device Regulation (MDR) criteria for CE marking, and the demand for specialised surgeon training are some of the challenges facing the business despite its strong pace. However, it is anticipated that these difficulties will be lessened by continued investments in R&D and expanding surgical centre accreditation programs. The market for robotic neurosurgery in Europe is therefore expected to develop quickly because to innovation, harmonised regulations, and a shared drive for more precise, patient-centered care.

## Market Segmentation

### Segmentation 1: by Region

#### Europe

U.K.

Germany

France

Italy

Spain

Rest-of-Europe

## Europe Robotic Neurosurgery Market Trends, Drivers and Challenges

### Market Trends

Integration of AI-driven imaging and navigation platforms for enhanced precision and reduced errors

Growth of multi-modal systems combining robotics with augmented reality and haptic feedback

Increasing use of frameless stereotactic robots (e.g., ROSA) for minimally invasive neurosurgical procedures

Miniaturization and modular robotic arms enabling flexible deployment in diverse OR environments

### Key Drivers

Rising prevalence of neurological disorders (e.g., Parkinson's, epilepsy, brain tumors)

Favorable reimbursement policies and expanding healthcare budgets

Clinical evidence showing reduced operative time, improved accuracy, and better patient outcomes

Growth of specialized neurosurgical centers and training programs

### Major Challenges

High acquisition and maintenance costs limiting access for smaller hospitals

Steep learning curves and shortage of trained neurosurgical robotics teams

Regulatory and CE marking complexities delaying market entry

Integration hurdles with legacy IT systems and cybersecurity concerns

### Key Market Players and Competition Synopsis

The companies that are profiled have been selected based on inputs gathered from primary experts and analyzing company coverage, type portfolio, and market

penetration.

Some prominent names in the market include:

Brainlab AG

Renishaw plc

Medtronic plc.

## Contents

Executive Summary  
Scope and Definition

### **1 EUROPE ROBOTIC NEUROSURGERY MARKET: INDUSTRY OUTLOOK**

- 1.1 Trends: Current and Future Impact Assessment
  - 1.1.1 Increasing Adoption of Robotic Neurosurgery Procedures
  - 1.1.2 Significant Number of Collaborations among Market Players
  - 1.1.3 Growing Number of Product Launch and Regulatory Approvals
- 1.2 Supply Chain Overview
- 1.3 Regulatory Framework
  - 1.3.1 European Union (EU)
  - 1.3.2 U.K.
- 1.4 Pricing Analysis
- 1.5 Funding Scenario
- 1.6 Market Dynamics
  - 1.6.1 Market Drivers
    - 1.6.1.1 Advantages of Robotic Neurosurgical Procedures Over Conventional Open Surgical Procedures
    - 1.6.1.2 Rising Prevalence of Neurological Disorders
    - 1.6.1.3 Continuous Technological Advancements in Robotic Neurosurgery
  - 1.6.2 Market Restraints
    - 1.6.2.1 High Cost of Investment
    - 1.6.2.2 Lack of Skilled Professionals
  - 1.6.3 Market Opportunities
    - 1.6.3.1 Development of Long-Distance Teleoperated Surgical Robotic Systems

### **2 ROBOTIC NEUROSURGERY MARKET (BY REGION), \$MILLION, 2023-2035**

- 2.1 Regional Summary
- 2.2 Europe
  - 2.2.1 Regional Overview
  - 2.2.2 Driving Factors for Market Growth
  - 2.2.3 Factors Challenging the Market
  - 2.2.4 Procedure Volume
  - 2.2.5 Germany
  - 2.2.6 Spain

2.2.7 U.K.

2.2.8 Rest-of-Europe

### **3 MARKETS - PRODUCT PROFILES**

3.1 Renishaw plc

3.1.1 Product Overview

3.1.2 Launch Year

3.1.3 Key Features

3.1.4 Key Parameter

3.1.5 Installed Base

3.1.6 Unit Sold

3.2 Zimmer Biomet Holdings, Inc.

3.2.1 Product Overview

3.2.2 Launch Year

3.2.3 Key Features

3.2.4 Key Parameter

3.2.5 Installed Base

3.2.6 Unit Sold

### **4 MARKETS - COMPETITIVE BENCHMARKING & COMPANY PROFILES**

4.1 Product Benchmarking

4.2 Key Strategies and Development

4.3 Company Profiles

4.3.1 Brainlab AG

4.3.1.1 Overview

4.3.1.2 Top Products/Product Portfolio

4.3.1.3 Top Competitors

4.3.1.4 Target Customers

4.3.1.5 Key Personal

4.3.1.6 Analyst View

4.3.2 Renishaw plc

4.3.2.1 Overview

4.3.2.2 Top Products/Product Portfolio

4.3.2.3 Top Competitors

4.3.2.4 Target Customers

4.3.2.5 Key Personal

4.3.2.6 Analyst View

#### 4.3.3 Medtronic plc

##### 4.3.3.1 Overview

##### 4.3.3.2 Top Products/Product Portfolio

##### 4.3.3.3 Top Competitors

##### 4.3.3.4 Target Customers

##### 4.3.3.5 Key Personal

##### 4.3.3.6 Analyst View

## **5 RESEARCH METHODOLOGY**

### 5.1 Data Sources

#### 5.1.1 Primary Data Sources

#### 5.1.2 Secondary Data Sources

#### 5.1.3 Data Triangulation

### 5.2 Market Estimation and Forecast

## List Of Figures

### LIST OF FIGURES

Figure 1: Europe Robotic Neurosurgery Market (by Scenario), \$Million, 2024, 2028, and 2035

Figure 2: Robotic Neurosurgery Market, \$Million, 2023 and 2035

Figure 3: Europe Robotic Neurosurgery Market (by Product Type), \$Million, 2023, 2028, and 2035

Figure 4: Robotic Neurosurgery Literature Published, January 2015 to April 2025

Figure 5: Supply Chain and Risks within the Supply Chain

Figure 6: EU Classification

Figure 7: NHS Classification

Figure 8: Impact Analysis of Market Navigating Factors, 2024-2035

Figure 9: Global Incidences of Neurological Disorders, Thousands, 2018-2021

Figure 10: Global Prevalence of Neurological Disorders (by Type of Neurological Disease), Thousands, 1990-2019

Figure 11: Prevalence of Parkinson's Disease, Region (2016-2021)

Figure 12: Timeline of the FDA Approvals for Various Robotic Neurosurgery Systems

Figure 13: Europe Robotic Neurosurgery Market, Procedure Volume, 2023-2035

Figure 14: Europe Robotic Neurosurgery Market, \$Million, 2023-2035

Figure 15: Europe Robotic Neurosurgery Market, Installed Base, 2023-2035

Figure 16: Europe Robotic Neurosurgery Market, Unit Sold, 2023-2035

Figure 17: Incidences of Neurological Disorders in Germany, 2018-2021

Figure 18: Germany Robotic Neurosurgery Market, Procedure Volume, 2023-2035

Figure 19: Germany Robotic Neurosurgery Market, \$Million, 2023-2035

Figure 20: Incidences of Neurological Disorders in France, 2018-2021

Figure 21: France Robotic Neurosurgery Market, Procedure Volume, 2023-2035

Figure 22: France Robotic Neurosurgery Market, \$Million, 2023-2035

Figure 23: Incidences of Neurological Disorders in Italy, 2018-2021

Figure 24: Italy Robotic Neurosurgery Market, Procedure Volume, 2023-2035

Figure 25: Italy Robotic Neurosurgery Market, \$Million, 2023-2035

Figure 26: Incidences of Neurological Disorders in Spain, 2018-2021

Figure 27: Spain Robotic Neurosurgery Market, Procedure Volume, 2023-2035

Figure 28: Spain Robotic Neurosurgery Market, \$Million, 2023-2035

Figure 29: Incidences of Neurological Disorders in U.K., 2018-2021

Figure 30: U.K. Robotic Neurosurgery Market, Procedure Volume, 2023-2035

Figure 31: U.K. Robotic Neurosurgery Market, \$Million, 2023-2035

Figure 32: Rest-of-Europe Robotic Neurosurgery Market, Procedure Volume,

2023-2035

Figure 33: Rest-of-Europe Robotic Neurosurgery Market, \$Million, 2023-2035

Figure 34: Strategic Initiatives, January 2022-April 2025

Figure 35: Data Triangulation

Figure 36: Top-Down and Bottom-Up Approach

Figure 37: Assumptions and Limitations

## List Of Tables

### LIST OF TABLES

Table 1: Market Snapshot

Table 2: Competitive Landscape Snapshot

Table 3: Robotic Neurosurgery Market Trend Analysis

Table 4: Some of the Partnerships and Collaborations in the Robotic Neurosurgery Market

Table 5: Some of the Product Launch and Regulatory Approvals in the Robotic Neurosurgery Market

Table 6: Costs of Neurosurgery Robotic Systems

Table 7: Funding Scenario of Neurosurgery Robotic Systems

Table 8: Comparison of Robotic Neurosurgical Procedures Over Conventional Open Surgical Procedures

Table 9: Comparison Between Various Navigation Systems Cost Breakdown of Robotic Neurosurgery Systems

Table 10: Robotic Neurosurgery Market (by Region), \$Million, 2023-2035

Table 11: Europe Robotic Neurosurgery Market (by Product Type), \$Million, 2023-2035

Table 12: Incidences of Neurological Disorders in Germany, By Disease Type, 2018-2021

Table 13: Incidences of Neurological Disorders in France, By Disease Type, 2018-2021

Table 14: Incidences of Neurological Disorders in Italy, By Disease Type, 2018-2021

Table 15: Incidences of Neurological Disorders in Spain, By Disease Type, 2018-2021

Table 16: Incidences of Neurological Disorders in U.K., By Disease Type, 2018-2021

Table 17: Robotic Neurosurgery Market, Product Benchmarking (by Product)

Table 18: Key Strategies, January 2022-April 2025

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