

Global Image-Guided Surgical Robot Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Image-Guided Surgical Robot market size was valued at US\$ 3622 million in 2025 and is forecast to a readjusted size of US\$ 9950 million by 2032 with a CAGR of 17.6% during review period.

In 2025, the global sales volume of Image-Guided Surgical Robots reached approximately 2,530 units, with an average transaction price of 1.39 million US dollars per unit, and the industry gross margin was about 55%. Image-Guided Surgical Robot is a high-end medical device that integrates medical imaging, spatial positioning and navigation, precision mechanical control and medical robot technologies, belonging to the core segmented category of surgical robots. Taking multi-modal medical imaging such as CT, MRI, intraoperative O-arm and ultrasound as the core positioning basis, this type of equipment realizes precise preoperative surgical path planning, real-time intraoperative instrument positioning and sub-millimeter level accurate operation through 3D image reconstruction, multi-space coordinate registration and intraoperative real-time navigation technologies, combined with multi-degree-of-freedom precision robotic arms, end effectors and master control consoles, completely breaking through the limitations of human hand physiological tremors, limited field of vision and operation accuracy. It is mainly applicable to scenarios including spine surgery, neurosurgery, percutaneous interventional puncture and orthopedic joint precise surgery, completes surgical operations entirely relying on closed-loop medical imaging navigation, differs from non-image-guided surgical robots based on pure endoscopic vision and mechanical positioning, boasts core advantages of high precision, low trauma and high safety, and serves as core equipment for clinical precise minimally invasive surgery.

As a core high-end equipment in the field of precise minimally invasive surgery, Image-Guided Surgical Robot is in a golden window of rapid growth, with continuously prominent clinical rigid demand and a clear, long-term growth development logic. Relying on the upgrading of clinical precise diagnosis and treatment needs, this track gradually extends and penetrates from core scenarios such as spine surgery and neurosurgery to more minimally invasive procedures. Product technology iterates in the direction of multi-modal image fusion, intelligent navigation and lightweight integration, the threshold of clinical implementation continues to decrease, and the overall penetration rate rises steadily. The global market presents a pattern of leading technology by head enterprises and differentiated regional competition. Overseas brands occupy the mainstream with technological and channel advantages, while domestic brands accelerate domestic substitution and overseas breakthroughs relying on localized innovation and cost-performance advantages. The overall industry profit structure tends to be optimized, with coordinated development of equipment sales, supporting services and consumables. Anchored by dual driving forces of clinical rigid demand and technological iteration, it will become the core carrier of intelligent upgrading of surgery in the future, with sufficient development resilience and stable long-term investment and layout value.

This report is a detailed and comprehensive analysis for global Image-Guided Surgical Robot market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Image-Guided Surgical Robot market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Image-Guided Surgical Robot market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Image-Guided Surgical Robot market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Image-Guided Surgical Robot market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Image-Guided Surgical Robot

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Image-Guided Surgical Robot market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Siemens Healthineers, Wuhan United Imaging Healthcare Surgical Technology Co., Ltd., Medtronic plc, Shanghai MicroPort MedBot (Group) Co., Ltd., Brainlab, Globus Medical, Zimmer Biomet Holdings, Inc., Renishaw, Beijing Tinavi Medical Technologies Co., Ltd., Perfint Healthcare Pvt. Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Image-Guided Surgical Robot market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

CT-Guided Surgical Robot

Intraoperative 3D Imaging-Guided Surgical Robot?O-arm/C-arm?

MRI-Guided Surgical Robot

Ultrasound-Guided Surgical Robot

Others

Market segment by Mechanical Structure

Multi-DOF Robotic Arm Type

Passive Positioner / Alignment Type

Hand-Held Robotic Device Type

Market segment by Application

Spine Surgery

Neurosurgery

Percutaneous Intervention & Minimally Invasive Therapy

Orthopedic Joint Replacement

Otolaryngology & Skull Base Surgery

Major players covered

Siemens Healthineers

Wuhan United Imaging Healthcare Surgical Technology Co., Ltd.

Medtronic plc

Shanghai MicroPort MedBot (Group) Co., Ltd.

Brainlab

Globus Medical

Zimmer Biomet Holdings, Inc.

Renishaw

Beijing Tinavi Medical Technologies Co., Ltd.

Perfint Healthcare Pvt. Ltd.

Intuitive Surgical Operations, Inc.

Stryker Corporation

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Image-Guided Surgical Robot product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Image-Guided Surgical Robot, with price, sales quantity, revenue, and global market share of Image-Guided Surgical Robot from

2021 to 2026.

Chapter 3, the Image-Guided Surgical Robot competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Image-Guided Surgical Robot breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Image-Guided Surgical Robot market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Image-Guided Surgical Robot.

Chapter 14 and 15, to describe Image-Guided Surgical Robot sales channel, distributors, customers, research findings and conclusion.

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