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Global Image-Guided Surgical Robot Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Image-Guided Surgical Robot market size is expected to reach $ 9950 million by 2032, rising at a market growth of 17.6% CAGR during the forecast period (2026-2032).

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 studies the global Image-Guided Surgical Robot production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Image-Guided Surgical Robot and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Image-Guided Surgical Robot that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Image-Guided Surgical Robot total production and demand, 2021-2032, (Units)
Global Image-Guided Surgical Robot total production value, 2021-2032, (USD Million)
Global Image-Guided Surgical Robot production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global Image-Guided Surgical Robot consumption by region & country, CAGR, 2021-2032 & (Units)
U.S. VS China: Image-Guided Surgical Robot domestic production, consumption, key domestic manufacturers and share
Global Image-Guided Surgical Robot production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)
Global Image-Guided Surgical Robot production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

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Global Image-Guided Surgical Robot production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Image-Guided Surgical Robot market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Image-Guided Surgical Robot market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) and average price (K US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Image-Guided Surgical Robot Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

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India

Rest of World

Global Image-Guided Surgical Robot Market, Segmentation 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

Global Image-Guided Surgical Robot Market, Segmentation by Mechanical Structure:

Multi-DOF Robotic Arm Type

Passive Positioner / Alignment Type

Hand-Held Robotic Device Type

Global Image-Guided Surgical Robot Market, Segmentation by Application:

Spine Surgery

Neurosurgery

Percutaneous Intervention & Minimally Invasive Therapy

Orthopedic Joint Replacement

Otolaryngology & Skull Base Surgery

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Companies Profiled:

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

Key Questions Answered:

1. How big is the global Image-Guided Surgical Robot market?
2. What is the demand of the global Image-Guided Surgical Robot market?
3. What is the year over year growth of the global Image-Guided Surgical Robot market?
4. What is the production and production value of the global Image-Guided Surgical Robot market?
5. Who are the key producers in the global Image-Guided Surgical Robot market?
6. What are the growth factors driving the market demand?

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