

Renal Stents Market Growth Trends: US\$2.08 Billion by 2033, Driven by CKD & Technological Advances | DataM Intelligence

Renal stents market valued at US\$1.19 Billion in 2024, driven by aging population, technological innovations, and minimally invasive procedures globally.

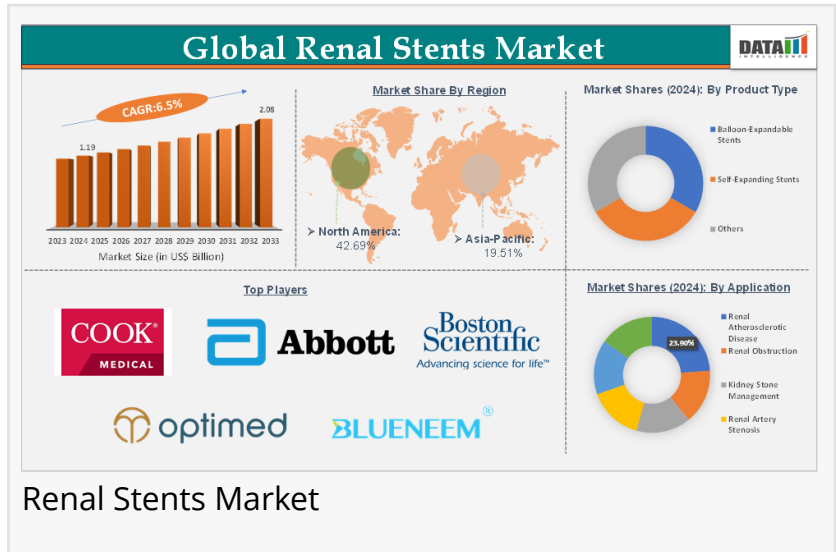
AUSTIN, TX, UNITED STATES,
September 26, 2025 /
EINPresswire.com/ -- According to
DataM Intelligence, the [renal stents market](#) reached US\$ 1.19 billion in 2024, up from US\$ 1.12 billion in 2023, and is projected to attain US\$ 2.08

billion by 2033, growing at a CAGR of 6.5% during the forecast period 2025-2033. Key growth drivers include the aging population, increasing prevalence of atherosclerotic renal artery disease, advancements in stent technology, and the rising need for minimally invasive interventions. Among applications, renal atherosclerotic disease dominates the market, while geographically, North America leads due to high disease prevalence, advanced healthcare infrastructure, and favorable reimbursement frameworks.

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North America leads the renal stents market with 42.69% share in 2024, as global demand rises from US\$1.19 Billion to US\$2.08 Billion by 2033, driven by atherosclerotic renal artery disease.”

DataM Intelligence



technological innovations such as drug-eluting stents, covered stents, and low-profile systems designed to navigate tortuous anatomies. As vendors focus on evidence-based positioning and targeted niche indications, the market is increasingly value-driven, emphasizing patient

outcomes, physician education, and alignment with payer and clinical guidelines.

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Key Highlights from the Report:

- The global renal stents market is projected to grow at a CAGR of 6.5% from 2025 to 2033.
- North America holds the largest market share at 42.69% in 2024.
- Renal atherosclerotic disease is the leading application segment with a 23.90% market share.
- Technological innovations, including drug-eluting and covered stents, are driving clinical adoption.
- Hospitals remain the primary end-users due to advanced interventional facilities.
- Rising prevalence of CKD and renovascular hypertension are key market growth drivers.

Recent Developments:

United States: Recent Industry Developments:

1. In August 2025, Boston Scientific launched a next-generation biodegradable renal stent in the U.S., designed to reduce restenosis and improve patient outcomes.
2. In July 2025, Medtronic introduced a drug-eluting renal stent system with enhanced flexibility and precision for minimally invasive urological procedures.
3. In June 2025, Cook Medical expanded its U.S. portfolio of ureteral and renal stents, focusing on patient comfort and optimized procedural efficiency.

Europe: Recent Industry Developments:

1. In July 2025, Bard Europe launched advanced self-expanding renal stents across European markets, targeting improved treatment of ureteral obstructions.
2. In June 2025, Teleflex partnered with European hospitals to implement high-visibility imaging renal stents, facilitating minimally invasive interventions.
3. In May 2025, Coloplast introduced innovative biodegradable ureteral stents in Europe, enhancing postoperative patient recovery.

Japan: Recent Industry Developments:

1. In July 2025, Terumo Corporation developed flexible renal stents for use in complex ureteral anatomies, improving procedural success rates in Japanese hospitals.

2. In June 2025, Olympus Corporation integrated renal stent deployment systems with endoscopic platforms, optimizing precision and safety in urological surgeries.

3. In May 2025, Nipro Corporation launched a new range of biocompatible ureteral stents, targeting both acute and chronic renal obstruction management in Japan.

Company Insights

Key players in the renal stents market include:

- Cook Medical
- Boston Scientific Corporation
- Abbott Vascular
- optimed Medical Instruments GmbH
- Blue Neem Medical

Market Segmentation:

The renal stents market is segmented based on product type, material, application, and end-user.

Product Type: The market comprises balloon-expandable stents, self-expanding stents, and others, each tailored to specific anatomical and clinical needs. Balloon-expandable stents are preferred in rigid or calcified arteries due to precise deployment, while self-expanding stents offer flexibility in tortuous anatomies.

Material: Stents are manufactured from metallic materials, polymers, composite materials, and other biocompatible substances. Metal stents provide structural durability, whereas polymer-based and composite stents reduce restenosis risk and enhance biocompatibility.

Application: The market is primarily driven by renal atherosclerotic disease, renal obstruction, kidney stone management, renal artery stenosis, and chronic kidney disease. Renal atherosclerotic disease dominates due to the rising incidence of hypertension and cardiovascular comorbidities in aging populations.

End-User: Hospitals, specialty clinics, ambulatory surgical centers, and academic/research institutes utilize renal stents, with hospitals capturing the majority share owing to availability of advanced imaging, interventional cardiology, and radiology infrastructure.

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Regional Insights

Geographically, North America leads the renal stents market due to a combination of high prevalence of CKD, renovascular hypertension, and a robust regulatory environment supporting device approvals. The United States is the largest contributor, supported by advanced interventional procedures and a growing elderly population with comorbidities like diabetes and hypertension.

Europe follows, driven by technological adoption in Western countries and increasing awareness of minimally invasive treatments. Asia Pacific is witnessing growth due to improving healthcare infrastructure, government initiatives for kidney disease management, and expanding awareness about renal health.

Emerging regions like South America and the Middle East & Africa are gradually adopting renal stents, though growth is constrained by limited healthcare access and procedural cost considerations.

Market Dynamics:

Market Drivers: The renal stents market is propelled by increasing incidence of CKD, renovascular hypertension, and post-transplant renal artery stenosis. These conditions create high-risk patient populations that benefit from minimally invasive stenting procedures, preserving kidney function and reducing the burden of dialysis. Technological advancements, including covered and drug-eluting stents, further enhance procedural safety and clinical outcomes.

Market Restraints: Procedural complications such as arterial dissection, thrombosis, stent migration, distal embolization, and restenosis limit market growth. Concerns over safety, cost, and guideline restrictions prevent routine adoption, confining stents to high-risk or refractory patient populations.

Market Opportunities: The increasing aging population, rising prevalence of atherosclerotic diseases, and expanding adoption of minimally invasive interventions present growth opportunities. Manufacturers are focusing on developing lower-profile, highly durable stents and establishing collaborations with imaging and catheter companies to expand clinical adoption in niche patient segments.

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Reasons to Buy the Report:

- Comprehensive insights into market trends, dynamics, and growth opportunities.
- Detailed segmentation and regional analysis to guide strategic decision-making.

- Competitive landscape overview with key player developments.
- Data-driven projections with CAGR, market size, and revenue estimates.
- Identification of potential market opportunities and challenges for investors and stakeholders.

Frequently Asked Questions (FAQs):

- How big is the global renal stents market in 2024?
- Which region dominates the renal stents market globally?
- What is the projected growth rate of the renal stents market during 2025-2033?
- Who are the key players in the renal stents market?
- What are the major applications of renal stents in clinical practice?

Conclusion:

The renal stents market is poised for steady growth, driven by rising CKD prevalence, technological advancements in stent design, and the growing need for minimally invasive renal interventions. North America will maintain its leadership, while emerging markets offer long-term expansion opportunities. As clinical evidence supports targeted use in high-risk populations, renal stents will continue to evolve as a specialty device segment, emphasizing value, patient outcomes, and procedural safety.

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