

# Demand for Digital Twin Bridge Cable Tension Market is forecasted to reach a value of US \$2.35 billion by 2029

*The Business Research Company's Digital Twin Bridge Cable Tension Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034*

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The Business  
Research Company

Digital Twin Bridge Cable Tension Global Market  
Report 2025

How Large Will The [Digital Twin Bridge Cable Tension Market](#) Be By 2025?

The size of the market for digital twin bridge cable tension has seen rapid expansion in the last few years. The market is anticipated to rise from \$1.01 billion in 2024 to a significant \$1.20 billion in 2025, boasting a compound annual growth rate (CAGR) of 18.6%. The historically observed growth pattern can be linked to a growing demand for monitoring the structural well-being of older bridges, an uptick in the utilization of digital twin technology for preventive maintenance, a surge in investments for infrastructure and modernization, an increased requirement to lessen bridge downtime and maintenance expenses, along with a growing combination of sensor networks for real-time data gathering.

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The market for digital twin bridge cable tension technology is projected to experience swift expansion in the coming years, with an expected worth of \$2.35 billion in 2024 and a CAGR of 18.3%. This anticipated growth during the forecast period can be credited to an increased focus on structural safety, a rising demand for immediate monitoring systems, governmental engagement in smart city initiatives, and an upsurge in investment towards civil engineering advancements. Key trends during the projected period consist of enhancements in AI-based

anomaly detection, the creation of cloud-focused scalable platforms, breakthroughs in real-time sensor integration, advancements in predictive maintenance analytics, and the development of standardized data protocols promoting interoperability.

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### What Are The Major Driving Forces Influencing The Digital Twin Bridge Cable Tension Market Landscape?

The growth of the digital twin bridge cable tension market is anticipated to be boosted by the increasing number of smart city projects. A smart city utilizes digital technology and leverages data to enhance its efficiency, wellbeing, decrease costs, and minimize resource usage. The prevalence of smart city projects is escalating due to growing demand for sustainable urban infrastructure that enhances efficiency, connectivity, and the quality of life. The implementation of Digital Twin Bridge Cable Tension bolsters smart city projects through the provision of real-time monitoring and predictive insight, thus improving the management of infrastructure to be efficient and preventative. Its function reduces the potential for structural failures by continuously evaluating cable performance, thereby enhancing safety and maintenance planning. For instance, the International Institute for Management Development, a Switzerland-based academic institution, reported in April 2023 that the number of smart cities had increased from 118 in 2021 to 141 in 2023. As such, the increasing trend of smart city projects is fuelling the growth of the digital twin bridge cable tension market.

### Who Are The Top Players In The Digital Twin Bridge Cable Tension Market?

Major players in the Digital Twin Bridge Cable Tension Global Market Report 2025 include:

- Schneider Electric SE
- SAP SE
- Toshiba Corporation
- Emerson Electric Co.
- Arup Group Limited
- Dassault Systèmes Société Européenne
- Hexagon AB
- Autodesk Inc.
- Stantec Inc.
- Trimble Inc.

### What Are The Top Trends In The [Digital Twin Bridge Cable Tension Industry](#)?

Dominant organizations in the digital twin bridge cable tension market are directing their focus towards the creation of technologically sophisticated solutions such as inventive sensor integration technologies. These technologies are aimed at improving real-time supervision and predictive maintenance capabilities. Innovative sensor integration technology involves creating and using superior sensor systems that facilitate ongoing data collection and analysis from various bridge components like cables. This aids in evaluating their state and output on the go.

Take, for instance, Bentley Systems, an American company that specializes in infrastructure engineering software, which unveiled the iTwin Platform in November 2022. This platform encompasses iTwin Experience, iTwin Capture, and iTwin IoT that broadens the horizons of digital twin abilities for infrastructure asset scrutiny. These platforms incorporate ground breaking sensor technologies that enable real-time safety and hazard monitoring during operations and construction, including the detection and visual depiction of environmental shifts, structural motion, or decay for condition examination, maintenance planning, and triggering preventive steps. The unveiling also saw the amalgamation of iTwin IoT with Bentley's digital twin ecosystem, providing engineering companies and asset proprietors the provision to vividly visualize and engage with infrastructure data in immersive 3D settings.

Market Share And Forecast By Segment In The Global Digital Twin Bridge Cable Tension Market  
The digital twin bridge cable tension market covered in this report is segmented

- 1) By Component: Software, Hardware, Services
- 2) By Deployment Mode: On-Premises, Cloud
- 3) By Application: Structural Health Monitoring, Predictive Maintenance, Asset Management, Performance Optimization, Other Applications
- 4) By End-User: Transportation, Construction, Utilities, Other End-Users

Subsegments:

- 1) By Software: Real Time Monitoring Software, Simulation Software, Predictive Analytics Software, Data Visualization Software, Performance Management Software
- 2) By Hardware: Sensors And Detectors, Data Acquisition Devices, Communication Modules, Processing Units, Wearable Monitoring Devices
- 3) By Services: Installation And Integration Services, Maintenance And Support Services, Consulting And Advisory Services, Training And Education Services, Performance Evaluation Services

View the full digital twin bridge cable tension market report:

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Digital Twin Bridge Cable Tension Market Regional Insights

In the Digital Twin Bridge Cable Tension Global Market Report 2025, North America was noted as the leading region in the year 2024. The market in Asia-Pacific, however, is projected to experience the most rapid growth in the future. The report includes data on several regions including Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa.

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