

X Ray Machine Market for Tire Inspection By System Type (Stationary and Mobile), Technology (2D and 3D), Use Case (Tier 1, OEM, and Aftermarket), Application (Tire Inspection, Tread Inspection, Sidewall Inspection, Bead Inspection), and Region - Global Forecast to 2032

Market Report | 2026-03-03 | 231 pages | MarketsandMarkets

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Report description:

The X ray machine market for tire inspection is projected to grow from USD 254.5 million in 2025 to USD 299.5 million by 2032, at a CAGR of 2.4%. The market is growing as equipment manufacturers are expanding system capabilities to accommodate larger OTR and specialty tires, while broadening their product portfolios across multiple tire sizes, load ratings, and vehicle categories, thereby widening their addressable customer base and application scope. High-volume passenger and commercial tire plants are implementing 100 percent structural inspection to prevent downstream warranty costs and export rejections. Automated in-line systems are supporting defect traceability, real-time rejection, and process correction. As manufacturers are aligning with zero-defect manufacturing strategies, the demand for integrated high-speed X ray inspection platforms is strengthening.

<https://mnmimg.marketsandmarkets.com/Images/x-ray-machine-market-img-overview.webp>

"The stationary X ray machines are projected to lead the market during the forecast period."

Stationary X ray machines for tire inspection serve as core quality assurance infrastructure within medium and high-volume tire manufacturing plants. Stationary systems are enabling standardized inspection protocols and plant-wide data integration. Digital defect archiving, supporting closed-loop quality control between tire building, curing, and other final inspection stages, is one of the key areas. A stationary X ray machine is driven by increasing internal complexity of modern tires, rising OEM quality benchmarks, growth in EV-specific tire production, expansion of high load commercial vehicle segments, and pressure to minimize field failure rates. Integration with MES platforms and automation systems is allowing stationary installations to function as

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long-term quality control assets rather than standalone inspection equipment. Their higher throughput capability, consistent inspection accuracy, and suitability for continuous operation are making them the preferred system type for Tier 1 global tire manufacturers. Leading suppliers of stationary X ray tire inspection systems include YXLON International under COMET Group, VisiConsult, Nikon Metrology, Mesnac, and Rayslov Inspection Technology, many of which are integrating automated loading systems and AI-based defect classification modules to support large-scale tire plants.

"The Tier 1 segment is projected to be the largest use case during the forecast period."

Tier 1 manufacturers have large-scale operations, strict compliance obligations, and deep integration with global automotive OEM supply chains. These manufacturers are operating high-volume, automated production lines where each tire is undergoing structural validation before dispatch, particularly across passenger car radial, truck and bus radial, and EV-specific platforms. Global OEMs are enforcing zero-defect policies and traceability standards under frameworks such as IATF 16949, requiring Tier 1 suppliers to validate internal belt alignment, bead integrity, ply overlap, and internal foreign inclusions through non-destructive inspection systems. Tire architectures are also becoming more complex, with multi-layer steel belts, reinforced sidewalls, and noise reduction inserts, making visual inspection insufficient and increasing reliance on high penetration X ray systems. In addition, Tier 1 manufacturers are exporting to regulated markets across Europe and North America, where recall exposure and liability risks are significantly higher, driving proactive investment in advanced inspection technologies. Their stronger capital expenditure capacity and ongoing integration of X-ray systems with MES and AI-driven defect classification platforms are further reinforcing adoption.

"Smart tire integration and regulatory stringency are driving advanced X ray adoption in European manufacturing."

Europe is projected to register the fastest growth in the X ray machine market for tire inspection due to structural changes in tire architecture, stringent regulatory compliance requirements, and rapid migration from conventional 2D radiography to high-resolution 3D CT systems. Tire manufacturers are embedding pressure, temperature, and tread wear sensors directly within the tire structure, which is increasing internal architecture complexity and introducing additional interfaces between rubber compounds, steel belts, and electronic modules. This structural integration requires higher penetration and higher resolution X ray systems to detect micro voids, cord displacement, air entrapment, and bonding inconsistencies around embedded components. Conventional 2D systems are being supplemented or replaced by advanced digital radiography and 3D CT platforms to ensure precise validation of sensor positioning and structural integrity. At the same time, stringent compliance requirements under the European Tire and Rim Technical Organisation and certification frameworks governed by the European Union Aviation Safety Agency are reinforcing zero-defect manufacturing and traceability mandates. European tire plants are operating highly automated production lines, where stationary in-line X ray systems are being integrated with curing presses, robotic handling units, and MES platforms to enable 100 percent inspection and digital defect mapping. This automation maturity is accelerating the shift toward fully integrated inspection cells rather than standalone offline testing.

The competitive ecosystem includes European X ray technology providers such as Yxlon International, VisiConsult, RX Solutions, and Nikon Metrology, working closely with leading tire manufacturers, including Continental AG, Michelin, and Pirelli. Stationary in-line digital radiography remains the preferred configuration for high-volume passenger and truck tire production, while offline 3D CT systems are increasingly used for smart tire validation, R&D characterization, and premium segment approval. For instance, Continental AG in Germany has embedded sensor technologies that are being validated through enhanced internal X-ray inspection protocols to ensure accurate module placement and long-term structural bonding performance prior to commercial deployment.

In-depth interviews were conducted with CEOs, marketing directors, other innovation and technology directors, and executives from various key organizations operating in this market.

-□By Company Type: X Ray Machine Manufacturers for Tire Inspection- 50%, Tire Manufacturers - 40%, Others - 10%

-□By Designation: CXOs - 30%, Directors - 40%, Others - 30%

-□By Country: Asia Pacific - 20%, North America - 20%, Europe - 50%, and Rest of the World - 10%

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Major players in the X ray machine market for tire inspection are AMETEK Micro-Poise (US), Technip Energies N.V. (France), Comet (Germany), MESNAC (China), and Nikon Corporation Industrial Solutions (Japan). These players have been adopting various strategies to sustain their positions in the market. Major strategies adopted are product launches, deals, and expansions. These strategies have been analyzed to understand the positions of these companies in the market. Manufacturers focus on maintaining their strategic position in the market by offering advanced, various X ray tire inspection machine solutions to meet evolving regulatory and consumer demands.

Research Coverage:

The report covers the X ray machine market for tire inspection, in terms of system type (stationary (in-line and off-line), mobile), technology (2D X ray and 3D CT), Use Case (Tier 1, OEM, and aftermarket), application (tire inspection, tread inspection, sidewall inspection, bead inspection and others), and region (Asia Pacific, Europe, North America, and Rest of the World). It covers the competitive landscape and company profiles of the major players in the ecosystem.

The study also includes an in-depth competitive analysis of the key players in the market, along with their company profiles, key observations related to product and business offerings, recent developments, and key market strategies.

Key Benefits of Buying the Report:

- This report will help market leaders/new entrants in this market with information on the closest approximations of revenue numbers for the X ray machine market for tire inspection ecosystem and its subsegments.
- This report will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies.
- This report will also help stakeholders understand the market's pulse and provide information on key market drivers, restraints, challenges, and opportunities.

The report provides insight into the following pointers:

- Analysis of key drivers (increasing internal inspection practices, advanced 3D imaging capabilities increasing demand, increase in vehicles on road and tire replacement cycles driving higher internal inspection), restraints (high capital investment per inspection line, higher installation and service complexity), opportunities (AI-driven automated defect classification, integration of X ray inspection with manufacturing execution system), and challenges (balancing image resolution with tire production speed)
- Product Development/Innovation: Detailed insights into upcoming technologies, research & development activities, and product launches in the market
- Market Development: Comprehensive information about lucrative markets (the report analyzes the X ray machine market for tire inspection across varied regions)
- Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the market
- Competitive Assessment: In-depth assessment of market ranking, growth strategies, and service offerings of leading market players like AMETEK Micro-Poise (US), Technip Energies N.V. (France), Comet (Germany), MESNAC (China), and Nikon Corporation Industrial Solutions (Japan)

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