

Needle Detector Market Expected to Reach US\$ 146.2 Million by 2033, Says Persistence Market Research

Growth is driven by strict regulations and rising demand for advanced inspection and quality control systems.

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[/EINPresswire.com/](https://www.einpresswire.com/) -- The global [needle detector market](#) is gaining momentum as manufacturers place greater emphasis on product safety, quality assurance, and compliance with international regulations. Needle detectors are specialized inspection systems designed to identify broken needles, metal fragments, and other contaminants in finished products before they reach consumers.

These systems are extensively used across textile and apparel manufacturing facilities, where even a small metal fragment can lead to product recalls, reputational damage, and safety concerns. As global manufacturing standards become increasingly stringent, businesses are investing in advanced inspection technologies to improve product quality and maintain regulatory compliance.

The global needle detector market size is expected to be valued at US\$ 97.2 million in 2026 and is projected to reach US\$ 146.2 million by 2033, growing at a CAGR of 6% during the forecast period. Market growth is driven by strict regulatory requirements, rising adoption of automated quality inspection systems, and growing awareness regarding consumer safety. Conveyor-type needle detectors remain the leading segment due to their ability to inspect products efficiently in high-volume production environments. Asia Pacific dominates the market, supported by its large textile manufacturing industry, growing industrialization, and increasing investments in factory automation across countries such as China, India, Bangladesh, and Vietnam.



Needle Detector Market

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Key Highlights from the Report

- The needle detector market is forecast to reach US\$ 146.2 million by 2033.
- The market is expected to grow at a CAGR of 6% from 2026 to 2033.
- Regulatory compliance requirements continue to drive market demand.
- Conveyor-type needle detectors hold a significant market share.
- Asia Pacific remains the leading regional market.
- Automation is increasing the adoption of advanced inspection systems.

Market Segmentation

The needle detector market is segmented by product type, application, and end-user industry. Based on product type, the market includes conveyor-type, tabletop, and handheld needle detectors. Conveyor-type systems dominate the market because they are widely deployed in large-scale manufacturing facilities where continuous inspection is required. Their ability to inspect products quickly without affecting production efficiency makes them the preferred choice among manufacturers.

By application, the market covers contamination detection, product inspection, and quality assurance. Quality assurance remains the largest application segment as companies increasingly focus on reducing product defects and meeting retailer requirements. From an end-user perspective, the market serves textiles and apparel, food processing, pharmaceuticals, packaging, and industrial manufacturing sectors. The textile and apparel industry accounts for the largest share due to extensive use of sewing equipment and strict safety requirements imposed by global brands and retailers.

Regional Insights

Asia Pacific holds the largest share of the global needle detector market. The region's dominance is attributed to its strong presence in textile and garment manufacturing. Countries such as China, India, Bangladesh, and Vietnam serve as major apparel production hubs, supplying products to international markets. To comply with strict export quality standards, manufacturers are increasingly adopting needle detection systems.

North America represents a mature market characterized by advanced manufacturing practices and strict product safety regulations. The growing use of automated inspection technologies in food processing and pharmaceutical industries supports market growth. Europe also remains a key market due to stringent quality control standards and rising investments in industrial automation. Meanwhile, emerging economies in Latin America and the Middle East & Africa are

witnessing gradual adoption of inspection systems as manufacturing activities expand.

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Market Drivers

The primary factor driving the needle detector market is the increasing emphasis on product safety and quality assurance. Manufacturers are under pressure to ensure that products meet regulatory requirements and consumer expectations. Needle detectors help identify hidden metal contaminants, reducing the risk of defective products reaching customers. Growing concerns regarding brand reputation and product recalls are further encouraging companies to invest in reliable inspection technologies.

Another important growth driver is the rising adoption of automation across manufacturing facilities. Modern production lines require fast and accurate inspection systems that can operate continuously without disrupting productivity. Advanced needle detectors improve operational efficiency while ensuring consistent quality control. Technological advancements, including digital sensors and automated monitoring systems, are also supporting market expansion.

Market Restraints

Despite positive growth prospects, the market faces several challenges. High initial investment costs associated with advanced needle detection equipment can limit adoption among small and medium-sized enterprises. In addition to purchase costs, maintenance, calibration, and employee training expenses can increase the total cost of ownership.

Limited awareness of advanced inspection technologies in certain developing regions also acts as a restraint. Some manufacturers continue to rely on manual inspection methods due to budget limitations. Furthermore, competition from alternative contamination detection technologies may affect market growth in specific applications.

Market Opportunities

The increasing adoption of smart manufacturing technologies presents significant opportunities for the needle detector market. Manufacturers are seeking intelligent inspection systems that provide real-time monitoring, production data analysis, and enhanced traceability. Integration with automated production lines can improve efficiency and reduce operational risks.

Expanding applications beyond textile manufacturing also create new growth opportunities. Industries such as food processing, pharmaceuticals, and medical device manufacturing are increasingly implementing contamination detection systems to comply with safety standards. The growing focus on automation and digital transformation is expected to generate sustained

demand for advanced needle detection solutions.

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Company Insights

- Anritsu Corporation
- CEIA S.p.A.
- Fortress Technology Inc.
- Mettler-Toledo International Inc.
- Ishida Co., Ltd.
- Minebea Intec GmbH
- Mesutronic Gerätebau GmbH
- Cassel Messtechnik GmbH

Recent Developments

Anritsu Corporation strengthened its inspection portfolio through the continued development of the KD74 Series, designed to improve product quality and factory safety.

Industry participants are increasingly integrating needle detectors with automated production systems to enhance inspection accuracy and operational efficiency.

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[Solid State Lighting Market](#) : The solid state lighting market is projected to reach US\$ 196.9 billion by 2033, growing at a CAGR of 10.4% from 2026.

[SMT Equipment Market](#) : The SMT equipment market is projected to reach US\$ 14.2 billion by 2033, expanding at a CAGR of 12.8% from 2026.

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