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Global AI Textile Defect Inspection Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global AI Textile Defect Inspection market size was valued at US$ 667 million in 2025 and is forecast to a readjusted size of US$ 1010 million by 2032 with a CAGR of 6.0% during review period.

AI Textile Defect Inspection refers to intelligent textile quality inspection systems that apply artificial intelligence technologies, including machine learning, deep learning and computer vision algorithms, to detect, classify and analyze defects during textile manufacturing processes. The research scope covers AI-enabled textile inspection equipment, machine vision systems, image analysis software and automated defect recognition solutions designed for fabric and textile quality control. These systems integrate industrial cameras, high-resolution imaging, AI algorithms and automated data processing technologies to identify defects such as broken yarns, stains, holes, weaving irregularities, color deviations and surface abnormalities. AI Textile Defect Inspection is mainly applied in textile production lines, fabric inspection processes, garment manufacturing and other textile-related industries requiring efficient and consistent quality management.

Key Findings

AI Textile Defect Inspection improves fabric quality control through automated defect recognition and analysis

Machine vision and deep learning technologies are core solutions for intelligent textile inspection

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Fabric and textile manufacturing represent major application areas for AI inspection systems

Asia Pacific is a key demand region supported by textile production capacity

AI inspection platforms are increasingly integrated into smart textile manufacturing systems

Market Trends

The AI Textile Defect Inspection industry is evolving toward higher detection accuracy, automation and intelligent textile production management. Traditional textile inspection methods often rely on manual visual inspection, which can be affected by subjective judgment, inspection efficiency and consistency limitations. AI technologies combined with machine vision and advanced image processing are increasingly used to improve defect identification, classification accuracy and production efficiency. Future development is expected to focus on high-speed inspection, real-time quality monitoring, multi-dimensional defect analysis and integration with digital textile manufacturing platforms to enable more efficient production control and quality optimization.

Market Dynamics

Drivers

The increasing demand for textile quality improvement, labor cost optimization and automated manufacturing processes is driving adoption of AI Textile Defect Inspection. Textile manufacturers require more efficient inspection technologies to reduce manual inspection dependence, improve production consistency and meet increasingly strict quality requirements from global supply chains.

Restraints

The market faces limitations from high initial investment costs, complex textile defect variations and challenges in developing universal AI models. Different fabrics, materials,

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weaving structures and production conditions require customized training datasets and algorithm optimization, increasing implementation complexity.

Opportunities

Opportunities are emerging from smart textile factories, digital manufacturing transformation and increasing demand for high-quality textile products. The integration of AI Textile Defect Inspection with automated production lines, manufacturing execution systems and digital quality platforms creates opportunities for suppliers providing intelligent textile inspection solutions.

Challenges

The industry faces challenges related to maintaining detection accuracy across diverse textile materials, handling complex visual patterns and achieving standardized deployment across different production environments. Suppliers need strong textile process knowledge, AI capabilities and system integration expertise to support broader industrial applications.

Industry Chain Analysis

The AI Textile Defect Inspection industry chain consists of upstream imaging components, AI technology providers, inspection equipment manufacturers and downstream textile producers. Upstream suppliers provide industrial cameras, optical components, sensors, computing hardware and AI software technologies. Midstream companies integrate machine vision systems, artificial intelligence algorithms, image processing technologies and textile inspection equipment to develop intelligent defect detection solutions. Downstream users include textile mills, fabric manufacturers, garment producers and industrial textile companies that apply AI inspection systems to improve quality control and production efficiency.

The value creation process mainly depends on inspection accuracy, AI algorithm performance, textile process understanding and system integration capabilities. Compared with traditional manual inspection, AI Textile Defect Inspection provides additional value through continuous monitoring, automated defect classification and improved production efficiency. Hardware capability, software intelligence and textile application expertise jointly determine supplier competitiveness and market positioning.

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Segment Insights

AI Textile Defect Inspection can be segmented by inspection technology, textile product type, defect category and automation level. AI vision inspection systems represent a major technology segment due to their non-contact inspection capability, flexibility and suitability for continuous textile production lines. Deep learning-based solutions are increasingly adopted because they can analyze complex fabric patterns and improve recognition of irregular defects.

By textile category, woven fabrics, knitted fabrics, nonwoven materials and finished textile products represent key application segments. Fabric inspection and production quality control remain major demand areas as textile manufacturers seek to reduce defect rates and improve manufacturing consistency. Future opportunities are expected to focus on high-speed AI inspection systems, automated fabric grading and integrated textile quality management platforms.

Downstream Market Opportunities

The downstream market for AI Textile Defect Inspection is closely connected with textile manufacturing, garment production, industrial fabrics and advanced textile applications. Manufacturers increasingly require intelligent inspection solutions to improve product quality, reduce waste and support automated production management. Opportunities are expected from premium textiles, functional fabrics, smart manufacturing upgrades and global textile supply chain quality improvement.

Regional Insights

Asia Pacific represents a major regional market for AI Textile Defect Inspection due to its large textile manufacturing base, extensive fabric production capacity and increasing adoption of industrial automation technologies. The region benefits from concentrated textile production activities and ongoing smart factory development. Europe and North America maintain demand through advanced textile manufacturing, high-quality fabric production and automation-oriented industrial upgrading.

Regional differences are mainly reflected in manufacturing scale, labor cost conditions and automation adoption levels. Asia Pacific focuses more on large-scale textile

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production deployment, while Europe and North America emphasize advanced inspection technologies, premium textile applications and customized quality control solutions.

Competitive Landscape Analysis

The AI Textile Defect Inspection market is characterized by competition among machine vision companies, textile inspection equipment providers and intelligent manufacturing solution suppliers. Competitive advantages are mainly determined by AI algorithm capability, imaging performance, textile process expertise and system integration experience. Companies with strong industrial vision technology and textile application knowledge are developing customized inspection solutions that combine defect detection, data analysis and production optimization. The market is gradually shifting from standalone inspection equipment toward integrated AI-based textile quality management systems.

Report Scope

This report is a detailed and comprehensive analysis for global AI Textile Defect Inspection market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global AI Textile Defect Inspection market size and forecasts, in consumption value ($ Million), 2021-2032

Global AI Textile Defect Inspection market size and forecasts by region and country, in consumption value ($ Million), 2021-2032

Global AI Textile Defect Inspection market size and forecasts, by Type and by Application, in consumption value ($ Million), 2021-2032

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Global AI Textile Defect Inspection market shares of main players, in revenue ($ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for AI Textile Defect Inspection

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global AI Textile Defect Inspection market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Uster Technologies AG, Mahlo GmbH + Co. KG, Datacolor AG, Eton Systems AB, KEYENCE Corporation, Cognex Corporation, Omron Corporation, SICK AG, Teledyne Technologies Incorporated, Coats Digital, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

AI Textile Defect Inspection market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segmentation

Market segment by Type

AI Fabric Surface Defect Inspection

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AI Yarn Defect Inspection

AI Weaving Defect Inspection

AI Knitted Fabric Defect Inspection

AI Color Defect Inspection

Market segment by Speed

High-Speed AI Fabric Inspection (>200 m/min)

Medium-Speed AI Fabric Inspection (50-200 m/min)

Low-Speed Precision AI Textile Inspection (<50 m/min)

Market segment by Application

Fabric Production

Garment Manufacturing

Home Textile Production

Industrial Textile Manufacturing

Technical Textile Production

Others

Market segment by players, this report covers

Uster Technologies AG

Mahlo GmbH + Co. KG

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Datacolor AG

Eton Systems AB

KEYENCE Corporation

Cognex Corporation

Omron Corporation

SICK AG

Teledyne Technologies Incorporated

Coats Digital

Shanghai Zhijing Information Technology Co., Ltd.

Hikvision

Shenzhen Machine Vision Technology Co., Ltd.

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

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Chapter Outline

Chapter 1, to describe AI Textile Defect Inspection product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of AI Textile Defect Inspection, with revenue, gross margin, and global market share of AI Textile Defect Inspection from 2021 to 2026.

Chapter 3, the AI Textile Defect Inspection competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026.and AI Textile Defect Inspection market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of AI Textile Defect Inspection.

Chapter 13, to describe AI Textile Defect Inspection research findings and conclusion.

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Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope
1.2 Market Estimation Caveats and Base Year
1.3 Classification of AI Textile Defect Inspection by Type
  1.3.1 Overview: Global AI Textile Defect Inspection Market Size by Type: 2021 Versus 2025 Versus 2032
  1.3.2 Global AI Textile Defect Inspection Consumption Value Market Share by Type in 2025
  1.3.3 AI Fabric Surface Defect Inspection
  1.3.4 AI Yarn Defect Inspection
  1.3.5 AI Weaving Defect Inspection
  1.3.6 AI Knitted Fabric Defect Inspection
  1.3.7 AI Color Defect Inspection
1.4 Classification of AI Textile Defect Inspection by Speed
  1.4.1 Overview: Global AI Textile Defect Inspection Market Size by Speed: 2021 Versus 2025 Versus 2032
  1.4.2 Global AI Textile Defect Inspection Consumption Value Market Share by Speed in 2025
  1.4.3 High-Speed AI Fabric Inspection (>200 m/min)
  1.4.4 Medium-Speed AI Fabric Inspection (50-200 m/min)
  1.4.5 Low-Speed Precision AI Textile Inspection (<50 m/min)
1.5 Global AI Textile Defect Inspection Market by Application
  1.5.1 Overview: Global AI Textile Defect Inspection Market Size by Application: 2021 Versus 2025 Versus 2032
  1.5.2 Fabric Production
  1.5.3 Garment Manufacturing
  1.5.4 Home Textile Production
  1.5.5 Industrial Textile Manufacturing
  1.5.6 Technical Textile Production
  1.5.7 Others
1.6 Global AI Textile Defect Inspection Market Size & Forecast
1.7 Global AI Textile Defect Inspection Market Size and Forecast by Region
  1.7.1 Global AI Textile Defect Inspection Market Size by Region: 2021 VS 2025 VS 2032
  1.7.2 Global AI Textile Defect Inspection Market Size by Region, (2021-2032)
  1.7.3 North America AI Textile Defect Inspection Market Size and Prospect

+357 96 030922
info@marketpublishers.com

(2021-2032)
1.7.4 Europe AI Textile Defect Inspection Market Size and Prospect (2021-2032)
1.7.5 Asia-Pacific AI Textile Defect Inspection Market Size and Prospect (2021-2032)
1.7.6 South America AI Textile Defect Inspection Market Size and Prospect (2021-2032)
1.7.7 Middle East & Africa AI Textile Defect Inspection Market Size and Prospect (2021-2032)

2 COMPANY PROFILES

2.1 Uster Technologies AG
2.1.1 Uster Technologies AG Details
2.1.2 Uster Technologies AG Major Business
2.1.3 Uster Technologies AG AI Textile Defect Inspection Product and Solutions
2.1.4 Uster Technologies AG AI Textile Defect Inspection Revenue, Gross Margin and Market Share (2021-2026)
2.1.5 Uster Technologies AG Recent Developments and Future Plans
2.2 Mahlo GmbH + Co. KG
2.2.1 Mahlo GmbH + Co. KG Details
2.2.2 Mahlo GmbH + Co. KG Major Business
2.2.3 Mahlo GmbH + Co. KG AI Textile Defect Inspection Product and Solutions
2.2.4 Mahlo GmbH + Co. KG AI Textile Defect Inspection Revenue, Gross Margin and Market Share (2021-2026)
2.2.5 Mahlo GmbH + Co. KG Recent Developments and Future Plans
2.3 Datacolor AG
2.3.1 Datacolor AG Details
2.3.2 Datacolor AG Major Business
2.3.3 Datacolor AG AI Textile Defect Inspection Product and Solutions
2.3.4 Datacolor AG AI Textile Defect Inspection Revenue, Gross Margin and Market Share (2021-2026)
2.3.5 Datacolor AG Recent Developments and Future Plans
2.4 Eton Systems AB
2.4.1 Eton Systems AB Details
2.4.2 Eton Systems AB Major Business
2.4.3 Eton Systems AB AI Textile Defect Inspection Product and Solutions
2.4.4 Eton Systems AB AI Textile Defect Inspection Revenue, Gross Margin and Market Share (2021-2026)
2.4.5 Eton Systems AB Recent Developments and Future Plans
2.5 KEYENCE Corporation

+357 96 030922
info@marketpublishers.com

2.5.1 KEYENCE Corporation Details
2.5.2 KEYENCE Corporation Major Business
2.5.3 KEYENCE Corporation AI Textile Defect Inspection Product and Solutions
2.5.4 KEYENCE Corporation AI Textile Defect Inspection Revenue, Gross Margin and Market Share (2021-2026)
2.5.5 KEYENCE Corporation Recent Developments and Future Plans
2.6 Cognex Corporation
2.6.1 Cognex Corporation Details
2.6.2 Cognex Corporation Major Business
2.6.3 Cognex Corporation AI Textile Defect Inspection Product and Solutions
2.6.4 Cognex Corporation AI Textile Defect Inspection Revenue, Gross Margin and Market Share (2021-2026)
2.6.5 Cognex Corporation Recent Developments and Future Plans
2.7 Omron Corporation
2.7.1 Omron Corporation Details
2.7.2 Omron Corporation Major Business
2.7.3 Omron Corporation AI Textile Defect Inspection Product and Solutions
2.7.4 Omron Corporation AI Textile Defect Inspection Revenue, Gross Margin and Market Share (2021-2026)
2.7.5 Omron Corporation Recent Developments and Future Plans
2.8 SICK AG
2.8.1 SICK AG Details
2.8.2 SICK AG Major Business
2.8.3 SICK AG AI Textile Defect Inspection Product and Solutions
2.8.4 SICK AG AI Textile Defect Inspection Revenue, Gross Margin and Market Share (2021-2026)
2.8.5 SICK AG Recent Developments and Future Plans
2.9 Teledyne Technologies Incorporated
2.9.1 Teledyne Technologies Incorporated Details
2.9.2 Teledyne Technologies Incorporated Major Business
2.9.3 Teledyne Technologies Incorporated AI Textile Defect Inspection Product and Solutions
2.9.4 Teledyne Technologies Incorporated AI Textile Defect Inspection Revenue, Gross Margin and Market Share (2021-2026)
2.9.5 Teledyne Technologies Incorporated Recent Developments and Future Plans
2.10 Coats Digital
2.10.1 Coats Digital Details
2.10.2 Coats Digital Major Business
2.10.3 Coats Digital AI Textile Defect Inspection Product and Solutions

+357 96 030922
info@marketpublishers.com

2.10.4 Coats Digital AI Textile Defect Inspection Revenue, Gross Margin and Market Share (2021-2026)
2.10.5 Coats Digital Recent Developments and Future Plans
2.11 Shanghai Zhijing Information Technology Co., Ltd.
2.11.1 Shanghai Zhijing Information Technology Co., Ltd. Details
2.11.2 Shanghai Zhijing Information Technology Co., Ltd. Major Business
2.11.3 Shanghai Zhijing Information Technology Co., Ltd. AI Textile Defect Inspection Product and Solutions
2.11.4 Shanghai Zhijing Information Technology Co., Ltd. AI Textile Defect Inspection Revenue, Gross Margin and Market Share (2021-2026)
2.11.5 Shanghai Zhijing Information Technology Co., Ltd. Recent Developments and Future Plans
2.12 Hikvision
2.12.1 Hikvision Details
2.12.2 Hikvision Major Business
2.12.3 Hikvision AI Textile Defect Inspection Product and Solutions
2.12.4 Hikvision AI Textile Defect Inspection Revenue, Gross Margin and Market Share (2021-2026)
2.12.5 Hikvision Recent Developments and Future Plans
2.13 Shenzhen Machine Vision Technology Co., Ltd.
2.13.1 Shenzhen Machine Vision Technology Co., Ltd. Details
2.13.2 Shenzhen Machine Vision Technology Co., Ltd. Major Business
2.13.3 Shenzhen Machine Vision Technology Co., Ltd. AI Textile Defect Inspection Product and Solutions
2.13.4 Shenzhen Machine Vision Technology Co., Ltd. AI Textile Defect Inspection Revenue, Gross Margin and Market Share (2021-2026)
2.13.5 Shenzhen Machine Vision Technology Co., Ltd. Recent Developments and Future Plans

3 MARKET COMPETITION, BY PLAYERS

3.1 Global AI Textile Defect Inspection Revenue and Share by Players (2021-2026)
3.2 Market Share Analysis (2025)
3.2.1 Market Share of AI Textile Defect Inspection by Company Revenue
3.2.2 Top 3 AI Textile Defect Inspection Players Market Share in 2025
3.2.3 Top 6 AI Textile Defect Inspection Players Market Share in 2025
3.3 AI Textile Defect Inspection Market: Overall Company Footprint Analysis
3.3.1 AI Textile Defect Inspection Market: Region Footprint
3.3.2 AI Textile Defect Inspection Market: Company Product Type Footprint

+357 96 030922
info@marketpublishers.com

3.3.3 AI Textile Defect Inspection Market: Company Product Application Footprint
3.4 New Market Entrants and Barriers to Market Entry
3.5 Mergers, Acquisition, Agreements, and Collaborations

4 MARKET SIZE SEGMENT BY TYPE

4.1 Global AI Textile Defect Inspection Consumption Value and Market Share by Type (2021-2026)
4.2 Global AI Textile Defect Inspection Market Forecast by Type (2027-2032)

5 MARKET SIZE SEGMENT BY APPLICATION

5.1 Global AI Textile Defect Inspection Consumption Value Market Share by Application (2021-2026)
5.2 Global AI Textile Defect Inspection Market Forecast by Application (2027-2032)

6 NORTH AMERICA

6.1 North America AI Textile Defect Inspection Consumption Value by Type (2021-2032)
6.2 North America AI Textile Defect Inspection Market Size by Application (2021-2032)
6.3 North America AI Textile Defect Inspection Market Size by Country
6.3.1 North America AI Textile Defect Inspection Consumption Value by Country (2021-2032)
6.3.2 United States AI Textile Defect Inspection Market Size and Forecast (2021-2032)
6.3.3 Canada AI Textile Defect Inspection Market Size and Forecast (2021-2032)
6.3.4 Mexico AI Textile Defect Inspection Market Size and Forecast (2021-2032)

7 EUROPE

7.1 Europe AI Textile Defect Inspection Consumption Value by Type (2021-2032)
7.2 Europe AI Textile Defect Inspection Consumption Value by Application (2021-2032)
7.3 Europe AI Textile Defect Inspection Market Size by Country
7.3.1 Europe AI Textile Defect Inspection Consumption Value by Country (2021-2032)
7.3.2 Germany AI Textile Defect Inspection Market Size and Forecast (2021-2032)
7.3.3 France AI Textile Defect Inspection Market Size and Forecast (2021-2032)
7.3.4 United Kingdom AI Textile Defect Inspection Market Size and Forecast (2021-2032)
7.3.5 Russia AI Textile Defect Inspection Market Size and Forecast (2021-2032)

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info@marketpublishers.com

7.3.6 Italy AI Textile Defect Inspection Market Size and Forecast (2021-2032)

8 ASIA-PACIFIC

8.1 Asia-Pacific AI Textile Defect Inspection Consumption Value by Type (2021-2032)
8.2 Asia-Pacific AI Textile Defect Inspection Consumption Value by Application (2021-2032)
8.3 Asia-Pacific AI Textile Defect Inspection Market Size by Region
8.3.1 Asia-Pacific AI Textile Defect Inspection Consumption Value by Region (2021-2032)
8.3.2 China AI Textile Defect Inspection Market Size and Forecast (2021-2032)
8.3.3 Japan AI Textile Defect Inspection Market Size and Forecast (2021-2032)
8.3.4 South Korea AI Textile Defect Inspection Market Size and Forecast (2021-2032)
8.3.5 India AI Textile Defect Inspection Market Size and Forecast (2021-2032)
8.3.6 Southeast Asia AI Textile Defect Inspection Market Size and Forecast (2021-2032)
8.3.7 Australia AI Textile Defect Inspection Market Size and Forecast (2021-2032)

9 SOUTH AMERICA

9.1 South America AI Textile Defect Inspection Consumption Value by Type (2021-2032)
9.2 South America AI Textile Defect Inspection Consumption Value by Application (2021-2032)
9.3 South America AI Textile Defect Inspection Market Size by Country
9.3.1 South America AI Textile Defect Inspection Consumption Value by Country (2021-2032)
9.3.2 Brazil AI Textile Defect Inspection Market Size and Forecast (2021-2032)
9.3.3 Argentina AI Textile Defect Inspection Market Size and Forecast (2021-2032)

10 MIDDLE EAST & AFRICA

10.1 Middle East & Africa AI Textile Defect Inspection Consumption Value by Type (2021-2032)
10.2 Middle East & Africa AI Textile Defect Inspection Consumption Value by Application (2021-2032)
10.3 Middle East & Africa AI Textile Defect Inspection Market Size by Country
10.3.1 Middle East & Africa AI Textile Defect Inspection Consumption Value by Country (2021-2032)

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10.3.2 Turkey AI Textile Defect Inspection Market Size and Forecast (2021-2032)
10.3.3 Saudi Arabia AI Textile Defect Inspection Market Size and Forecast (2021-2032)
10.3.4 UAE AI Textile Defect Inspection Market Size and Forecast (2021-2032)

11 MARKET DYNAMICS

11.1 AI Textile Defect Inspection Market Drivers
11.2 AI Textile Defect Inspection Market Restraints
11.3 AI Textile Defect Inspection Trends Analysis
11.4 Porters Five Forces Analysis
11.4.1 Threat of New Entrants
11.4.2 Bargaining Power of Suppliers
11.4.3 Bargaining Power of Buyers
11.4.4 Threat of Substitutes
11.4.5 Competitive Rivalry

12 INDUSTRY CHAIN ANALYSIS

12.1 AI Textile Defect Inspection Industry Chain
12.2 AI Textile Defect Inspection Upstream Analysis
12.3 AI Textile Defect Inspection Midstream Analysis
12.4 AI Textile Defect Inspection Downstream Analysis

13 RESEARCH FINDINGS AND CONCLUSION

14 APPENDIX

14.1 Methodology
14.2 Research Process and Data Source
14.3 Disclaimer

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Global AI Textile Defect Inspection Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
Table 2. Global AI Textile Defect Inspection Consumption Value by Speed, (USD Million), 2021 & 2025 & 2032
Table 3. Global AI Textile Defect Inspection Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Table 4. Global AI Textile Defect Inspection Consumption Value by Region (2021-2026) & (USD Million)
Table 5. Global AI Textile Defect Inspection Consumption Value by Region (2027-2032) & (USD Million)
Table 6. Uster Technologies AG Company Information, Head Office, and Major Competitors
Table 7. Uster Technologies AG Major Business
Table 8. Uster Technologies AG AI Textile Defect Inspection Product and Solutions
Table 9. Uster Technologies AG AI Textile Defect Inspection Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 10. Uster Technologies AG Recent Developments and Future Plans
Table 11. Mahlo GmbH + Co. KG Company Information, Head Office, and Major Competitors
Table 12. Mahlo GmbH + Co. KG Major Business
Table 13. Mahlo GmbH + Co. KG AI Textile Defect Inspection Product and Solutions
Table 14. Mahlo GmbH + Co. KG AI Textile Defect Inspection Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 15. Mahlo GmbH + Co. KG Recent Developments and Future Plans
Table 16. Datacolor AG Company Information, Head Office, and Major Competitors
Table 17. Datacolor AG Major Business
Table 18. Datacolor AG AI Textile Defect Inspection Product and Solutions
Table 19. Datacolor AG AI Textile Defect Inspection Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 20. Eton Systems AB Company Information, Head Office, and Major Competitors
Table 21. Eton Systems AB Major Business
Table 22. Eton Systems AB AI Textile Defect Inspection Product and Solutions
Table 23. Eton Systems AB AI Textile Defect Inspection Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 24. Eton Systems AB Recent Developments and Future Plans

+357 96 030922
info@marketpublishers.com

Table 25. KEYENCE Corporation Company Information, Head Office, and Major Competitors
Table 26. KEYENCE Corporation Major Business
Table 27. KEYENCE Corporation AI Textile Defect Inspection Product and Solutions
Table 28. KEYENCE Corporation AI Textile Defect Inspection Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 29. KEYENCE Corporation Recent Developments and Future Plans
Table 30. Cognex Corporation Company Information, Head Office, and Major Competitors
Table 31. Cognex Corporation Major Business
Table 32. Cognex Corporation AI Textile Defect Inspection Product and Solutions
Table 33. Cognex Corporation AI Textile Defect Inspection Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 34. Cognex Corporation Recent Developments and Future Plans
Table 35. Omron Corporation Company Information, Head Office, and Major Competitors
Table 36. Omron Corporation Major Business
Table 37. Omron Corporation AI Textile Defect Inspection Product and Solutions
Table 38. Omron Corporation AI Textile Defect Inspection Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 39. Omron Corporation Recent Developments and Future Plans
Table 40. SICK AG Company Information, Head Office, and Major Competitors
Table 41. SICK AG Major Business
Table 42. SICK AG AI Textile Defect Inspection Product and Solutions
Table 43. SICK AG AI Textile Defect Inspection Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 44. SICK AG Recent Developments and Future Plans
Table 45. Teledyne Technologies Incorporated Company Information, Head Office, and Major Competitors
Table 46. Teledyne Technologies Incorporated Major Business
Table 47. Teledyne Technologies Incorporated AI Textile Defect Inspection Product and Solutions
Table 48. Teledyne Technologies Incorporated AI Textile Defect Inspection Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 49. Teledyne Technologies Incorporated Recent Developments and Future Plans
Table 50. Coats Digital Company Information, Head Office, and Major Competitors
Table 51. Coats Digital Major Business
Table 52. Coats Digital AI Textile Defect Inspection Product and Solutions
Table 53. Coats Digital AI Textile Defect Inspection Revenue (USD Million), Gross

+357 96 030922
info@marketpublishers.com

Margin and Market Share (2021-2026)
Table 54. Coats Digital Recent Developments and Future Plans
Table 55. Shanghai Zhijing Information Technology Co., Ltd. Company Information, Head Office, and Major Competitors
Table 56. Shanghai Zhijing Information Technology Co., Ltd. Major Business
Table 57. Shanghai Zhijing Information Technology Co., Ltd. AI Textile Defect Inspection Product and Solutions
Table 58. Shanghai Zhijing Information Technology Co., Ltd. AI Textile Defect Inspection Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 59. Shanghai Zhijing Information Technology Co., Ltd. Recent Developments and Future Plans
Table 60. Hikvision Company Information, Head Office, and Major Competitors
Table 61. Hikvision Major Business
Table 62. Hikvision AI Textile Defect Inspection Product and Solutions
Table 63. Hikvision AI Textile Defect Inspection Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 64. Hikvision Recent Developments and Future Plans
Table 65. Shenzhen Machine Vision Technology Co., Ltd. Company Information, Head Office, and Major Competitors
Table 66. Shenzhen Machine Vision Technology Co., Ltd. Major Business
Table 67. Shenzhen Machine Vision Technology Co., Ltd. AI Textile Defect Inspection Product and Solutions
Table 68. Shenzhen Machine Vision Technology Co., Ltd. AI Textile Defect Inspection Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 69. Shenzhen Machine Vision Technology Co., Ltd. Recent Developments and Future Plans
Table 70. Global AI Textile Defect Inspection Revenue (USD Million) by Players (2021-2026)
Table 71. Global AI Textile Defect Inspection Revenue Share by Players (2021-2026)
Table 72. Breakdown of AI Textile Defect Inspection by Company Type (Tier 1, Tier 2, and Tier 3)
Table 73. Market Position of Players in AI Textile Defect Inspection, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
Table 74. Head Office of Key AI Textile Defect Inspection Players
Table 75. AI Textile Defect Inspection Market: Company Product Type Footprint
Table 76. AI Textile Defect Inspection Market: Company Product Application Footprint
Table 77. AI Textile Defect Inspection New Market Entrants and Barriers to Market Entry
Table 78. AI Textile Defect Inspection Mergers, Acquisition, Agreements, and

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Collaborations
Table 79. Global AI Textile Defect Inspection Consumption Value (USD Million) by Type (2021-2026)
Table 80. Global AI Textile Defect Inspection Consumption Value Share by Type (2021-2026)
Table 81. Global AI Textile Defect Inspection Consumption Value Forecast by Type (2027-2032)
Table 82. Global AI Textile Defect Inspection Consumption Value by Application (2021-2026)
Table 83. Global AI Textile Defect Inspection Consumption Value Forecast by Application (2027-2032)
Table 84. North America AI Textile Defect Inspection Consumption Value by Type (2021-2026) & (USD Million)
Table 85. North America AI Textile Defect Inspection Consumption Value by Type (2027-2032) & (USD Million)
Table 86. North America AI Textile Defect Inspection Consumption Value by Application (2021-2026) & (USD Million)
Table 87. North America AI Textile Defect Inspection Consumption Value by Application (2027-2032) & (USD Million)
Table 88. North America AI Textile Defect Inspection Consumption Value by Country (2021-2026) & (USD Million)
Table 89. North America AI Textile Defect Inspection Consumption Value by Country (2027-2032) & (USD Million)
Table 90. Europe AI Textile Defect Inspection Consumption Value by Type (2021-2026) & (USD Million)
Table 91. Europe AI Textile Defect Inspection Consumption Value by Type (2027-2032) & (USD Million)
Table 92. Europe AI Textile Defect Inspection Consumption Value by Application (2021-2026) & (USD Million)
Table 93. Europe AI Textile Defect Inspection Consumption Value by Application (2027-2032) & (USD Million)
Table 94. Europe AI Textile Defect Inspection Consumption Value by Country (2021-2026) & (USD Million)
Table 95. Europe AI Textile Defect Inspection Consumption Value by Country (2027-2032) & (USD Million)
Table 96. Asia-Pacific AI Textile Defect Inspection Consumption Value by Type (2021-2026) & (USD Million)
Table 97. Asia-Pacific AI Textile Defect Inspection Consumption Value by Type (2027-2032) & (USD Million)

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Table 98. Asia-Pacific AI Textile Defect Inspection Consumption Value by Application (2021-2026) & (USD Million)
Table 99. Asia-Pacific AI Textile Defect Inspection Consumption Value by Application (2027-2032) & (USD Million)
Table 100. Asia-Pacific AI Textile Defect Inspection Consumption Value by Region (2021-2026) & (USD Million)
Table 101. Asia-Pacific AI Textile Defect Inspection Consumption Value by Region (2027-2032) & (USD Million)
Table 102. South America AI Textile Defect Inspection Consumption Value by Type (2021-2026) & (USD Million)
Table 103. South America AI Textile Defect Inspection Consumption Value by Type (2027-2032) & (USD Million)
Table 104. South America AI Textile Defect Inspection Consumption Value by Application (2021-2026) & (USD Million)
Table 105. South America AI Textile Defect Inspection Consumption Value by Application (2027-2032) & (USD Million)
Table 106. South America AI Textile Defect Inspection Consumption Value by Country (2021-2026) & (USD Million)
Table 107. South America AI Textile Defect Inspection Consumption Value by Country (2027-2032) & (USD Million)
Table 108. Middle East & Africa AI Textile Defect Inspection Consumption Value by Type (2021-2026) & (USD Million)
Table 109. Middle East & Africa AI Textile Defect Inspection Consumption Value by Type (2027-2032) & (USD Million)
Table 110. Middle East & Africa AI Textile Defect Inspection Consumption Value by Application (2021-2026) & (USD Million)
Table 111. Middle East & Africa AI Textile Defect Inspection Consumption Value by Application (2027-2032) & (USD Million)
Table 112. Middle East & Africa AI Textile Defect Inspection Consumption Value by Country (2021-2026) & (USD Million)
Table 113. Middle East & Africa AI Textile Defect Inspection Consumption Value by Country (2027-2032) & (USD Million)
Table 114. Global Key Players of AI Textile Defect Inspection Upstream (Raw Materials)
Table 115. Global AI Textile Defect Inspection Typical Customers

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List Of Figures

LIST OF FIGURES

Figure 1. AI Textile Defect Inspection Picture
Figure 2. Global AI Textile Defect Inspection Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
Figure 3. Global AI Textile Defect Inspection Consumption Value Market Share by Type in 2025
Figure 4. AI Fabric Surface Defect Inspection
Figure 5. AI Yarn Defect Inspection
Figure 6. AI Weaving Defect Inspection
Figure 7. AI Knitted Fabric Defect Inspection
Figure 8. AI Color Defect Inspection
Figure 9. Global AI Textile Defect Inspection Consumption Value by Speed, (USD Million), 2021 & 2025 & 2032
Figure 10. Global AI Textile Defect Inspection Consumption Value Market Share by Speed in 2025
Figure 11. High-Speed AI Fabric Inspection (>200 m/min)
Figure 12. Medium-Speed AI Fabric Inspection (50-200 m/min)
Figure 13. Low-Speed Precision AI Textile Inspection (<50 m/min)
Figure 14. Global AI Textile Defect Inspection Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 15. AI Textile Defect Inspection Consumption Value Market Share by Application in 2025
Figure 16. Fabric Production Picture
Figure 17. Garment Manufacturing Picture
Figure 18. Home Textile Production Picture
Figure 19. Industrial Textile Manufacturing Picture
Figure 20. Technical Textile Production Picture
Figure 21. Others Picture
Figure 22. Global AI Textile Defect Inspection Consumption Value, (USD Million): 2021 & 2025 & 2032
Figure 23. Global AI Textile Defect Inspection Consumption Value and Forecast (2021-2032) & (USD Million)
Figure 24. Global Market AI Textile Defect Inspection Consumption Value (USD Million) Comparison by Region (2021 VS 2025 VS 2032)
Figure 25. Global AI Textile Defect Inspection Consumption Value Market Share by Region (2021-2032)

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Figure 26. Global AI Textile Defect Inspection Consumption Value Market Share by Region in 2025
Figure 27. North America AI Textile Defect Inspection Consumption Value (2021-2032) & (USD Million)
Figure 28. Europe AI Textile Defect Inspection Consumption Value (2021-2032) & (USD Million)
Figure 29. Asia-Pacific AI Textile Defect Inspection Consumption Value (2021-2032) & (USD Million)
Figure 30. South America AI Textile Defect Inspection Consumption Value (2021-2032) & (USD Million)
Figure 31. Middle East & Africa AI Textile Defect Inspection Consumption Value (2021-2032) & (USD Million)
Figure 32. Company Three Recent Developments and Future Plans
Figure 33. Global AI Textile Defect Inspection Revenue Share by Players in 2025
Figure 34. AI Textile Defect Inspection Market Share by Company Type (Tier 1, Tier 2, and Tier 3) in 2025
Figure 35. Market Share of AI Textile Defect Inspection by Player Revenue in 2025
Figure 36. Top 3 AI Textile Defect Inspection Players Market Share in 2025
Figure 37. Top 6 AI Textile Defect Inspection Players Market Share in 2025
Figure 38. Global AI Textile Defect Inspection Consumption Value Share by Type (2021-2026)
Figure 39. Global AI Textile Defect Inspection Market Share Forecast by Type (2027-2032)
Figure 40. Global AI Textile Defect Inspection Consumption Value Share by Application (2021-2026)
Figure 41. Global AI Textile Defect Inspection Market Share Forecast by Application (2027-2032)
Figure 42. North America AI Textile Defect Inspection Consumption Value Market Share by Type (2021-2032)
Figure 43. North America AI Textile Defect Inspection Consumption Value Market Share by Application (2021-2032)
Figure 44. North America AI Textile Defect Inspection Consumption Value Market Share by Country (2021-2032)
Figure 45. United States AI Textile Defect Inspection Consumption Value (2021-2032) & (USD Million)
Figure 46. Canada AI Textile Defect Inspection Consumption Value (2021-2032) & (USD Million)
Figure 47. Mexico AI Textile Defect Inspection Consumption Value (2021-2032) & (USD Million)

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Figure 48. Europe AI Textile Defect Inspection Consumption Value Market Share by Type (2021-2032)
Figure 49. Europe AI Textile Defect Inspection Consumption Value Market Share by Application (2021-2032)
Figure 50. Europe AI Textile Defect Inspection Consumption Value Market Share by Country (2021-2032)
Figure 51. Germany AI Textile Defect Inspection Consumption Value (2021-2032) & (USD Million)
Figure 52. France AI Textile Defect Inspection Consumption Value (2021-2032) & (USD Million)
Figure 53. United Kingdom AI Textile Defect Inspection Consumption Value (2021-2032) & (USD Million)
Figure 54. Russia AI Textile Defect Inspection Consumption Value (2021-2032) & (USD Million)
Figure 55. Italy AI Textile Defect Inspection Consumption Value (2021-2032) & (USD Million)
Figure 56. Asia-Pacific AI Textile Defect Inspection Consumption Value Market Share by Type (2021-2032)
Figure 57. Asia-Pacific AI Textile Defect Inspection Consumption Value Market Share by Application (2021-2032)
Figure 58. Asia-Pacific AI Textile Defect Inspection Consumption Value Market Share by Region (2021-2032)
Figure 59. China AI Textile Defect Inspection Consumption Value (2021-2032) & (USD Million)
Figure 60. Japan AI Textile Defect Inspection Consumption Value (2021-2032) & (USD Million)
Figure 61. South Korea AI Textile Defect Inspection Consumption Value (2021-2032) & (USD Million)
Figure 62. India AI Textile Defect Inspection Consumption Value (2021-2032) & (USD Million)
Figure 63. Southeast Asia AI Textile Defect Inspection Consumption Value (2021-2032) & (USD Million)
Figure 64. Australia AI Textile Defect Inspection Consumption Value (2021-2032) & (USD Million)
Figure 65. South America AI Textile Defect Inspection Consumption Value Market Share by Type (2021-2032)
Figure 66. South America AI Textile Defect Inspection Consumption Value Market Share by Application (2021-2032)
Figure 67. South America AI Textile Defect Inspection Consumption Value Market

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Share by Country (2021-2032)
Figure 68. Brazil AI Textile Defect Inspection Consumption Value (2021-2032) & (USD Million)
Figure 69. Argentina AI Textile Defect Inspection Consumption Value (2021-2032) & (USD Million)
Figure 70. Middle East & Africa AI Textile Defect Inspection Consumption Value Market Share by Type (2021-2032)
Figure 71. Middle East & Africa AI Textile Defect Inspection Consumption Value Market Share by Application (2021-2032)
Figure 72. Middle East & Africa AI Textile Defect Inspection Consumption Value Market Share by Country (2021-2032)
Figure 73. Turkey AI Textile Defect Inspection Consumption Value (2021-2032) & (USD Million)
Figure 74. Saudi Arabia AI Textile Defect Inspection Consumption Value (2021-2032) & (USD Million)
Figure 75. UAE AI Textile Defect Inspection Consumption Value (2021-2032) & (USD Million)
Figure 76. AI Textile Defect Inspection Market Drivers
Figure 77. AI Textile Defect Inspection Market Restraints
Figure 78. AI Textile Defect Inspection Market Trends
Figure 79. Porters Five Forces Analysis
Figure 80. AI Textile Defect Inspection Industrial Chain
Figure 81. Methodology
Figure 82. Research Process and Data Source

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