

Global FPC Automatic Appearance Inspection Machine Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global FPC Automatic Appearance Inspection Machine market size is expected to reach \$ 199 million by 2032, rising at a market growth of 4.1% CAGR during the forecast period (2026-2032).

In 2025, the production volume of FPC automatic visual inspection machines is projected to reach 11,402 units, with an average selling price of \$12,500 per unit. The global annual production capacity for FPC automatic visual inspection machines stands at approximately 20,000 units, with a gross margin of approximately 34.6%. An FPC automatic visual inspection machine typically refers to equipment designed for the automated inspection of the surface and appearance of Flexible Printed Circuit Boards (FPCs). By employing machine vision, optical imaging, and intelligent algorithms, it performs rapid and objective detection and classification of FPC defects, coatings, line widths, hole positions, and other parameters. This process helps improve yield rates, reduce labor costs, and facilitates production traceability and quality control. Upstream raw materials for FPC automatic visual inspection machines include camera modules, image sensor chips, edge computing chips, and similar components. The midstream segment consists of the manufacturers of these inspection machines, while the downstream market is primarily driven by industries such as consumer electronics, automotive electronics, and medical electronics.

The market for automated FPC visual inspection machines is experiencing rapid growth, driven by increasing demand for flexible printed circuits (FPCs) across sectors such as consumer electronics, automotive electronics, and wearable devices; consequently, the market size continues to expand. As FPC manufacturing evolves toward higher density and greater precision, traditional manual inspection methods are proving insufficient to

meet current requirements. Automated visual inspection machines—leveraging their advantages in high precision, high efficiency, and non-contact inspection—have thus emerged as critical equipment within the FPC production workflow. The current market landscape is characterized by a diverse mix of participants, ranging from globally renowned corporations to emerging domestic manufacturers. Domestic vendors, capitalizing on their accumulated technological expertise and cost advantages, have secured a significant share of the low-to-mid-range market while simultaneously making gradual inroads into the high-end segment. Looking ahead, as FPC application scenarios continue to broaden and technological iterations accelerate, the market for automated visual inspection machines is expected to sustain its growth trajectory, with technological advancements trending toward greater intelligence, higher precision, and increased speed.

This report studies the global FPC Automatic Appearance Inspection Machine production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for FPC Automatic Appearance Inspection Machine and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of FPC Automatic Appearance Inspection Machine that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global FPC Automatic Appearance Inspection Machine total production and demand, 2021-2032, (Units)

Global FPC Automatic Appearance Inspection Machine total production value, 2021-2032, (USD Million)

Global FPC Automatic Appearance Inspection Machine production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global FPC Automatic Appearance Inspection Machine consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: FPC Automatic Appearance Inspection Machine domestic production, consumption, key domestic manufacturers and share

Global FPC Automatic Appearance Inspection Machine production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global FPC Automatic Appearance Inspection Machine production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global FPC Automatic Appearance Inspection Machine production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global FPC Automatic Appearance Inspection Machine market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include DZ Group, KENSHO, Nidec, Utechzone, ZHENGYE TECHNOLOGY, RONG CHEER, DEEP SIGHT, Prevision, SmartMore, V5TEC, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World FPC Automatic Appearance Inspection Machine market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global FPC Automatic Appearance Inspection Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global FPC Automatic Appearance Inspection Machine Market, Segmentation by Type:

Optical Inspection

Machine Vision

X-Ray Inspection

Global FPC Automatic Appearance Inspection Machine Market, Segmentation by Detection Function:

Appearance Defect Detection

Dimensional Accuracy Inspection

Positioning and Alignment Inspection

Global FPC Automatic Appearance Inspection Machine Market, Segmentation by Equipment Type:

Linear Array Scanner

Area Array Scanner

Integrated Inspection System

Global FPC Automatic Appearance Inspection Machine Market, Segmentation by Detection Accuracy:

5 ?m – 10 ?m

10 ?m – 20 ?m

Above 20 ?m

Global FPC Automatic Appearance Inspection Machine Market, Segmentation by Application:

Consumer Electronics

Automotive Electronics

Communications

Medical

Aerospace

Others

Companies Profiled:

DZ Group

KENSHO

Nidec

Utechzone

ZHENGYE TECHNOLOGY

RONG CHEER

DEEP SIGHT

Prevision

SmartMore

V5TEC

Kunshan Jiexiang Industrial Equipment

YanMade

Koh Young

Key Questions Answered:

1. How big is the global FPC Automatic Appearance Inspection Machine market?
2. What is the demand of the global FPC Automatic Appearance Inspection Machine market?
3. What is the year over year growth of the global FPC Automatic Appearance Inspection Machine market?
4. What is the production and production value of the global FPC Automatic Appearance Inspection Machine market?
5. Who are the key producers in the global FPC Automatic Appearance Inspection Machine market?
6. What are the growth factors driving the market demand?

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