

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

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## Abstracts

The global FPC Appearance Inspection Machine market size is expected to reach \$ 193 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 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 visual inspection machines stands at approximately 20,000 units, with a gross margin of approximately 34.6%. An FPC visual inspection machine typically refers to equipment utilized for the automated inspection of the surface and visual appearance of Flexible Printed Circuit Boards (FPCs). Employing machine vision, optical imaging, and intelligent algorithms, these machines perform rapid, objective inspection and classification of FPCs—assessing defects, surface coatings, line widths, hole positioning, and other parameters—thereby helping to boost yield rates, reduce labor costs, and facilitate production traceability and quality control. Upstream raw materials for FPC visual inspection machines include camera modules, image sensor chips, edge computing chips, and similar components. The midstream segment consists of the FPC visual inspection machine manufacturers themselves, while the downstream market is primarily driven by industries such as consumer electronics, automotive electronics, and medical electronics.

The market for FPC visual inspection machines is experiencing rapid growth, driven by the prevailing trends toward lighter, thinner, and highly integrated electronic products. Given the widespread application of FPCs, the demand for inspection precision and efficiency is constantly on the rise. The competitive landscape is diverse, comprising international brands, Taiwanese manufacturers, and domestic enterprises; domestic manufacturers have secured a significant share of the mid-to-low-end market by

leveraging their advantages in cost-effectiveness and localized services, while some firms are breaking into the high-end market through technological upgrades. With the growing adoption of smart manufacturing, the demand for inline inspection has surged, prompting inspection equipment to evolve toward greater intelligence and high precision. Consequently, AI algorithms and deep learning technologies are being integrated into inspection systems to enhance their defect recognition capabilities. Demand for FPC visual inspection continues to rise across sectors such as consumer electronics, automotive, and medical devices, thereby driving market expansion; however, given the high technical barriers and the need for extensive customization, enterprises must engage in continuous innovation to effectively meet the diverse requirements of their clientele.

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

This report is a detailed and comprehensive analysis of the world market for FPC 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 Appearance Inspection Machine that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global FPC 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 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 Appearance Inspection Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Optical Inspection

Machine Vision

X-Ray Inspection

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

Appearance Defect Detection

Dimensional Accuracy Inspection

Positioning and Alignment Inspection

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

Linear Array Scanner

Area Array Scanner

Integrated Inspection System

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

5 ?m – 10 ?m

10 ?m – 20 ?m

Above 20 ?m

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

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