

Global FPC Surface Defect Inspection Machine Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global FPC Surface Defect Inspection Machine market size is expected to reach \$ 206 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 surface defect detection 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 surface defect detection machines stands at approximately 20,000 units, with a gross margin of approximately 34.6%. An FPC surface defect detection machine is specialized automated equipment—based on machine vision and image processing technologies—specifically designed to automatically detect various manufacturing defects on the surfaces of Flexible Printed Circuits (FPCs). Utilizing a combination of high-resolution industrial cameras and specialized light sources, the device captures high-precision images of the FPC surface. It then employs either deep learning algorithms or traditional image processing algorithms to analyze these images in real-time, identifying surface defects such as open circuits/short circuits, scratches, indentations, contamination, oxidation, pinholes, burrs, copper foil residues, and coverlay misalignment or bubbles; simultaneously, it automatically classifies, locates, and marks these defects. Typically deployed downstream of critical stages within the FPC production line—such as etching, plating, and coverlay lamination—this equipment serves as a substitute for traditional manual visual inspection. By significantly accelerating inspection speeds, enhancing inspection consistency, and reducing the rate of missed detections, it stands as a core piece of inspection equipment for achieving automated quality management and improving yield rates in the FPC manufacturing process. The upstream raw materials for FPC surface defect detection machines include camera modules, image sensor chips, edge computing chips, and similar components. The midstream segment consists of the

manufacturers of these FPC surface defect detection machines, while the downstream market is primarily comprised of industries such as consumer electronics, automotive electronics, and medical electronics.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global FPC Surface Defect 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, SAMSUN TECH, 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 Surface Defect 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 Surface Defect Inspection Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global FPC Surface Defect Inspection Machine Market, Segmentation by Type:

Optical Inspection

Machine Vision

X-Ray Inspection

Global FPC Surface Defect Inspection Machine Market, Segmentation by Automation Level:

Manual

Semi-Automatic

Fully Automatic

Global FPC Surface Defect Inspection Machine Market, Segmentation by Detection Accuracy:

0.1mm

0.01mm

0.001mm

Global FPC Surface Defect Inspection Machine Market, Segmentation by Application:

Consumer Electronics

Automotive Electronics

Communications

Medical

Aerospace

Others

Companies Profiled:

DZ Group

KENSHO

SAMSUN TECH

Utechzone

ZHENGYE TECHNOLOGY

RONG CHEER

DEEP SIGHT

Prevision

SmartMore

V5TEC

Kunshan Jiexiang Industrial Equipment

YanMade

TZTEK

JUTZE

SAIVISION

inspec

Key Questions Answered:

1. How big is the global FPC Surface Defect Inspection Machine market?
2. What is the demand of the global FPC Surface Defect Inspection Machine market?
3. What is the year over year growth of the global FPC Surface Defect Inspection

Machine market?

4. What is the production and production value of the global FPC Surface Defect Inspection Machine market?

5. Who are the key producers in the global FPC Surface Defect Inspection Machine market?

6. What are the growth factors driving the market demand?

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