

Global PCB Dry Film Laminators Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global PCB Dry Film Laminators market size was valued at US\$ 112 million in 2025 and is forecast to a readjusted size of US\$ 166 million by 2032 with a CAGR of 5.8% during review period.

PCB Dry Film Laminators are dedicated process equipment used in printed circuit board manufacturing to laminate dry film photoresist, dry film solder mask or other photosensitive functional films onto circuit board substrates. The equipment controls heat, pressure, roller transmission, film tension, automatic cutting, vacuum-assisted air removal and process recipes to achieve uniform adhesion and stable film transfer. It is typically used before exposure, development, etching, pattern plating, solder mask imaging and build-up processes. As circuit boards become thinner, denser, finer in line width and more reliability-oriented, dry film lamination equipment is evolving from basic manual systems toward semi-automatic, fully automatic, high-cleanliness, high-precision and inline production solutions.

In 2025, global PCB Dry Film Laminators production reached approximately 1264 units, with an average global market price of around US\$ 86 k per unit

The upstream supply chain of PCB Dry Film Laminators mainly includes structural metals and precision machined parts, heating rollers and pressure rollers, rubber rollers, belts, bearings, linear guides, ball screws, servo motors, drives, programmable controllers, sensors, pneumatic components, vacuum pumps, electrical cabinets, human-machine interfaces and control software. Representative suppliers include Nippon Steel, Baosteel, POSCO; NSK, SKF, IKO, etc.

Downstream applications include Rigid PCB manufacturing, FPC manufacturing, and HDI and IC Substrate Manufacturing. The representative customer names include TTM Technologies, Unimicron Technology, Shennan Circuits, Nippon Mektron, Career Technology, Sumitomo Electric Printed Circuits, etc.

The overall gross margin of PCB Dry Film Laminators is generally at 30%-45%.

By type, PCB Dry Film Laminators are segmented into Manual Dry Film Laminators, Semi-automatic Dry Film Laminators and Fully Automatic Dry Film Laminators. Manual Dry Film Laminators are relatively simple in structure and rely heavily on operators for panel feeding, film loading, alignment and cutting. They are mainly used in research laboratories, education, prototyping, sample production and low-volume manufacturing, with advantages in low investment cost, flexibility and easy maintenance. Semi-automatic Dry Film Laminators integrate controlled heating, pressure adjustment, transport speed control and partial film handling, making them suitable for small and medium batch PCB production where users need better process stability without the full cost of an inline system. Fully Automatic Dry Film Laminators integrate automatic film unwinding, panel feeding, cutting, waste collection, pressure control, temperature control, recipe storage and production-line connectivity, making them the preferred solution for mass production, thin panels, fine-line boards, HDI boards and IC substrate manufacturing.

By application, PCB Dry Film Laminators are mainly used in Rigid PCB manufacturing, FPC manufacturing, and HDI and IC Substrate Manufacturing. Rigid PCB is the fundamental application area, where the equipment is used for inner-layer imaging, outer-layer imaging, etching masks and pattern plating masks, requiring uniform lamination, stable pressure, low bubble formation and precise film-edge control. FPC manufacturing requires stronger tension control, thin-film transport, wrinkle prevention and continuous processing capability, especially for thin flexible substrates and roll-based materials. HDI and IC Substrate Manufacturing imposes the highest requirements on cleanliness, pressure uniformity, temperature stability, vacuum lamination and defect control, driving the adoption of fully automatic, vacuum-assisted and high-precision laminating systems.

Market Driving Factors include the upgrading of the PCB industry toward finer lines and higher density, the miniaturization of electronic devices, growing demand from automotive electronics and communication equipment, capacity expansion in HDI and IC substrate manufacturing, automation replacing manual operations, the need for higher production yield, broader adoption of dry film photoresist and dry film solder

mask, and stricter process stability requirements in advanced circuit board manufacturing. Consumer electronics, servers, communication base stations, new energy vehicles, intelligent driving systems, industrial control and advanced packaging are increasing circuit board complexity, which strengthens the importance of precise and stable dry film lamination. At the same time, PCB manufacturers' demand for cost reduction, labor reduction, lower human error, higher traceability and flexible multi-product production supports the wider adoption of semi-automatic and fully automatic dry film laminators.

Market Restraints include relatively high equipment investment, cyclical capital expenditure in the downstream PCB industry, long customer qualification cycles, difficulty in matching different films and substrates, reliance on process know-how for maintenance and debugging, intense price competition in low-end equipment, and the continued preference of some small manufacturers for low-cost manual or semi-automatic systems. In HDI and IC Substrate Manufacturing, customers impose strict requirements on cleanliness, vacuum lamination, pressure uniformity and long-term stability, which raises entry barriers for new equipment suppliers. In addition, higher penetration of liquid solder mask, direct imaging, alternative functional films or other pattern-transfer processes in selected applications may create substitution pressure on part of the traditional dry film laminator demand.

This report is a detailed and comprehensive analysis for global PCB Dry Film Laminators market. Both quantitative and qualitative analyses are presented by manufacturers, 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 PCB Dry Film Laminators market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global PCB Dry Film Laminators market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global PCB Dry Film Laminators market size and forecasts, by Type and by Application,

in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global PCB Dry Film Laminators market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 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 PCB Dry Film Laminators

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 PCB Dry Film Laminators market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include C Sun Manufacturing Ltd., Dynachem Automatic Lamination Technologies s.r.l., MCK Co., Ltd., Top Range Machinery Co., Ltd., Shenzhen Xinguanghui Technology Co., Ltd., Beijing Golden Eagle Electronic Equipment Co., Ltd., Growns Electronic Technology Co., Ltd., Bungard Elektronik GmbH & Co. KG, Mohite Electronics Private Limited, etc.

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

Market Segmentation

PCB Dry Film Laminators 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 in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Manual Dry Film Laminators

Semi-automatic Dry Film Laminators

Fully Automatic Dry Film Laminators

Market segment by Film Application Side

Single-sided Dry Film Laminators

Double-sided Dry Film Laminators

Market segment by Lamination Width

Narrow-width Dry Film Laminators

Standard-width Dry Film Laminators

Wide-width Dry Film Laminators

Ultra-wide Dry Film Laminators

Market segment by Application

Rigid PCB (Printed Circuit Board)

FPC (Flexible Printed Circuit)

HDI and IC Substrate Manufacturing

Major players covered

C Sun Manufacturing Ltd.

Dynachem Automatic Lamination Technologies s.r.l.

MCK Co., Ltd.

Top Range Machinery Co., Ltd.

Shenzhen Xinguanghui Technology Co., Ltd.

Beijing Golden Eagle Electronic Equipment Co., Ltd.

Growns Electronic Technology Co., Ltd.

Bungard Elektronik GmbH & Co. KG

Mohite Electronics Private Limited

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe PCB Dry Film Laminators product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of PCB Dry Film Laminators, with price, sales quantity, revenue, and global market share of PCB Dry Film Laminators from 2021 to 2026.

Chapter 3, the PCB Dry Film Laminators competitive situation, sales quantity, revenue,

and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the PCB Dry Film Laminators breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and PCB Dry Film Laminators market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of PCB Dry Film Laminators.

Chapter 14 and 15, to describe PCB Dry Film Laminators sales channel, distributors, customers, research findings and conclusion.

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